

REQUEST FOR PROPOSALS

UK-2564.0-11-25

CONSTRUCT HEALTH EDUCATION BUILDING – ELECTRICAL EQUIPMENT

ADDENDUM # 01

07/24/2024

ATTENTION: This is not an order. Read all instructions, terms, and conditions carefully.

IMPORTANT: RFP AND ADDENDUM MUST BE RECEIVED BY 07/30/2024 @ 3:00 P.M. LEXINGTON, KY TIME

Offeror must acknowledge receipt of this and any addendum as stated in the Request for Proposal.

Item No. 01 Replace Project General Work Requirements with updated version.

Item No. 02 See answers to all submitted questions.

<u>Item No. 03</u> JRA Architects Addendum No. 01 – include all work scope items, clarifications, etc. as detailed consistent with your trade contract work scope document.

OFFICIAL APPROVAL	SIGNATURE
UNIVERSITY OF KENTUCKY	
1 the	
Corey W. Leslie, AD. Construction Procurement	Typed or Printed Name

University of Kentucky Procurement Services 322 Peterson Service Building Lexington, KY 40506-0005

	CCK-2564.0-11-25	
	Question and Response Log	
	Question Deadline	
#	Question	Response
1 1	Is there a generator package included with this bid? I see there are generators on the project overall; however, I do not see any specifications regarding a generator(s), and they are also grayed out on the one-line.	Generators aren't part of this bid package and will be included in a later bid package.
2		The Busway footage can be estimated from the scaled drawings in the Bid Package. Specifically you can look at Dwgs. E-400Q, E-400S, E-600Q

GENERAL WORK REQUIREMENTS

A.	GENERAL
1.	In these contract documents the term "provide" shall be defined as meaning "furnish and install."
2.	All Trade Contractors shall provide full time supervision while its forces are working on this Project. The Trade Contractors' jobsite supervision shall be experienced in his trade and be capable and have authority to make decisions regarding costs, manpower, and schedule. The Trade Contractors shall obtain the approval of the Construction Manager of his job management personnel prior to their assignment to the Project. Trade Contractors' supervision and management personnel shall not be changed without prior approval of the Owner or Construction Manager.
3.	All contractors shall review the documents to understand what work is included in this Health Education Building Project. Ask specific questions with any clarifications needed.
4.	Work hour details for this Project's existing areas: a. Assume ALL work contained in this work scope that occurs in occupied areas/buildings shall be performed AFTER normal working hours (off shift work hours).
	b. Health Education Building construction area – 6:30am to 5:30 pm Monday to Friday.
	c. Special work hours and off shift hours will be determined for noise making activities such as hoe ramming, drilling, sawcutting, shot pin installs, etc. Assume hours for this work will be 8 am to 8 pm.
5.	Trade Contractors shall not order or consign materials for the project in the name of the Owner, Architect, or Turner. Turner Reserves the right to reject all such shipments received in this manner. Deliveries must be coordinated with the Construction Manager a minimum of (1) week prior to receipt on site. Any material deliveries without notice will be given access on an "as available" basis. Also reference Turner's standard subcontractor contract 36 article VI.
6.	Trade Contractors are responsible to protect and repair if damaged all adjacent properties and structures, including lawn, planting areas, hardscapes and trees as required to execute the work. Plan for protection of adjacent structures must be part of the overall plan submitted for approval prior to start of work. Trade Contractors will be responsible for immediately replacing/repairing any damage to existing utilities, existing structures, lawn and planting beds, and hardscapes in or outside of the building limits caused by the trade contractor's workforce.
7.	It is the responsibility of each Trade Contractor to make certain that all of its Work performed under the Construction Contract is in accordance with all applicable laws, statutes, ordinances, codes, and regulations. Trade Contractors shall give all notices and comply with all laws, ordinances, rules, regulations, and orders of any public authority with jurisdiction over the performance of the Work. Contractor shall promptly pay all fees, taxes, deposits, charges, penalties, or interest that may be claimed against or paid by Owner/Construction Manager due to any failure to comply with any such laws, statutes, ordinances, codes, or regulations (including those pertaining to permits, licenses, or notices). This shall include any and all professional engineering fees required.
8.	All Trade Contractors must employ the proper trades and provide composite crew s if necessary to perform this Scope of Work and to avoid jurisdictional disputes.
9.	Each trade contractor is to provide their own drinking water.
10.	Contractors must be licensed as required by local, State, or Federal jurisdiction required for work of their respective trade in this project location. Contractors are to obtain any and all required licenses including a Contractor's license fee for doing business in the locale. Provide copies of the license to the Construction Manager.
11.	Upon request, Trade Contractors must provide the Construction Manager with field copies of latest referenced standards.
12.	The Contract Price shall be based on a normal forty (40) hour workweek unless otherwise specified i.e. first shift but may be staggered, Monday - Friday. All work to be performed for tie-ins to existing utilities/services shall be figured at a rate outside the normal (40) hour workweek. All tie-in work shall be scheduled with written approval and coordinated with Turner's Superintendent. Unless Turner's Project Superintendent issues written instruction/agreement otherwise, if a contractor works beyond the eight (8) hours per day, five (5) days per week normal work period, he shall bear all added costs. Trade Contractors shall notify Turner's Project Superintendent by 12:00 PM (noon) 2-days before the requested overtime to allow time to make proper arrangements. Overhead and profit markup shall not be permitted on premium time costs or on shift work premiums (see General Conditions).
13.	All Trade Contractors' superintendents and foremen are required to have cell phones compatible for reception in and around the project areas for daily contact. All Trade Contractors and their sub-contractors are required to have at least one (1) iPad each that will be used for review of electronic drawings and other project information as well as at least one (1) iPad each that will be used for electronic punchlists and project execution via Procore. These iPads are to be used on the construction site and shall be onsite at all times each company's workers are present for those worker's use. iPads shall have their own internet connectivity. Trade Contractors should not assume internet connectivity will be available on-site via Wi-Fi.
14.	The Trade Contractors must attend all required meetings as follows:

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- a. The **Weekly Work Plan meeting** for overall job coordination. Attendance is mandatory for <u>all</u> Trade Contractor <u>superintendents and foreman</u>. All attendees must have the authority to make decisions and commitments.
- b. The Weekly Six Week Look Ahead Planning meeting for overall job coordination. Attendance is mandatory for all Trade Contractor <u>Project Managers</u>. All attendees must have the authority to make decisions and commitments.
- c. The **Monthly Project Safety Meeting**. Additional supplemental meetings will be held due to incidents, field safety violations, etc. by this or other trade contractors / tiered subcontractors.
- d. The **Monthly Trade Review Meeting**. The project manager, superintendent, and foreman for each crew/trade are required to be in attendance. These meetings are to discuss current schedule, issues, manpower, and address any other questions or concerns. These meetings will start in the same month as your start of work and will continue until determined otherwise by the construction manager.
- e. The **Monthly Safety Committee Meeting**. Each Trade Contractor will have the responsibility to provide <u>an individual</u> to attend the Monthly Safety Committee Meeting. This individual should be considered a competent employee that is able to represent the Trade Contractors' scope of work by having at least 5 years in the trade. The purpose of this meeting is to provide an opportunity to disseminate project safety related information and to receive the helpful feedback from the tradesmen in the field.
- f. The **Daily Stand-Up meetings**. Attendance is mandatory for all Trade Contractor <u>superintendents and/or foreman</u>.
- g. The **Reverse Phase Schedule meetings (Pull Plan)**. Attendance is mandatory for all applicable Trade Contractors. Those trade contractor's <u>project managers and superintendents</u> are required to attend. These will be held at the Construction Manager's discretion.
- h. The **Morning Stretch and Flex**. <u>All persons</u> on the project must be in attendance to work that day. Anyone coming in after the stretch and flex has the potential to be removed from site.
- i. The **Pre Task Plan (PTP) meeting**. Each trade contractor is responsible for holding these meetings each day after the stretch and flex. The trade contractor's <u>superintendent and/or foreman</u> will be responsible for running this meeting. Each trade contractor is responsible to ensure their sub tier contractors participate in a PTP meeting for the day.
- j. The **Utility Outage Planning meeting**. <u>All superintendents and foreman</u> <u>needing outages</u> are required to attend this meeting.
- k. Separate mechanical and electrical coordination meetings will be held on the jobsite as often as required to facilitate progress of the work.
- I. Quality Assurance / Quality Control meeting (QA/QC): The construction manager intends to hold a once a month QA/QC meeting. This meeting may be selective with trade contractor <u>project managers</u>, <u>superintendents</u>, <u>and foreman</u> invites for focus on topic. The intent is to limit the meeting to one hour. The option of several meetings is possible with small groups on differing divisions of work. Trade contractors will be required to provide a specific quality control plan for said division of work. We can focus of QA/QC in the specifications, manufacturer's data, mock-up, sign-off sheets, applicable testing and jurisdiction authorities, inspections, deficiency list, special care and protection, peer reviews, sequencing of work and turnover, etc.
- m. The **Job Hazard Analysis (JHA) meeting**. This meeting will be before the start of the trade contractor's work. No work will start before this meeting. This meeting will require the trade contractor's <u>safety person</u>, the <u>project manager</u>, the <u>superintendent</u>, and <u>any foreman</u> that will be on that project. All JHAs will be complete prior to this meeting and sent in to Turner for review.
- n. The **Pre-Start Work meeting**. The purpose of this meeting is to review the drawings and specs with the trade contractor's <u>project manager</u>, <u>superintendent</u>, <u>and foreman</u> to ensure that the project will be completed according to specifications. Sub tier contractors (including material suppliers) may be required to attend. It will be the responsibility of the trade contractor to ensure the attendance of all required persons from any sub tier contractor needed.
- o. Any Meeting as required by the Owner, Architect, or Construction Manager
- 15. Each contractor will be responsible for the **security** of his own stored material, job office, conex box, gang box, equipment, tools, etc.
- 16. **Project signs or advertisements** of any nature, including job offices shall not be installed on the jobsite or structure without preapproval of Construction Manager and the Owner. In general, identification lettering of company offices shall be six inches or less; location(s) still must be preapproved by the construction manager and the owner.

HEALTH EDUCATION BUILDING

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17.	All Trade Contractors shall include work made necessary by field conditions that may not be shown in the Contract Documents, but that are apparent during an inspection of the construction site. Trade Contractors must familiarize themselves with the jobsite prior to starting work.
18.	All equipment is to be equipped with high efficiency, durable construction exhaust purifiers ('Scrubbers''). Each Trade Contractor is responsible for providing and maintaining (including filter changes) scrubbers for each piece of equipment.
19.	All trade contractors are to be responsible to ensure at the end of each day's work shift the building perimeter is secure and locked down and all of their respective employees are offsite.
20.	All construction crews on site are a minimum of two people. No single person crews allowed. This may consist of one ground person and one person in the air.
21.	A special effort is to be made to provide the necessary protection to keep oil (from lifts, equipment, etc.) off of all floor areas. The offending Trade Contractor will be responsible for any clean-up required due to inadequate protection.
22.	The University of Kentucky campus and medical campus are tobacco free. "Use of all tobacco products is prohibited in all owned, operated, leased or [health care] controlled university buildings, grounds, parking structures, enclosed bridges and walkways, sidewalks, parking lots and vehicles, as well as personal vehicles in these areas." "Tobacco includes cigarettes, pipes, snuff, chewing tobacco, e-cigarettes, etc." There are tobacco treatment centers such as the Local health departments (Fayette county Health Department 859-288-2327), 1-800-quit-now. For listings "go to the UKhealthcare.uky.edu to find a link to a statewide listing of tobacco programs.
23. B.	Contractor shall track their fuel and utility consumption for the duration of their contract. This information shall be turned over to the CM on a monthly basis. Any utilities used through the University will be paid via the special conditions. SAFETY
1.	All Trade Contractors must fully comply with the Construction Manager's corporate safety policy , comply with the Site Specific Safety Plan (included in this manual as attachment 'C') , and all federal, state, and local safety ordinances. The Trade Contractor must also submit a formal written project specific safety plan that is complimentary to the Construction Manager's Safety Plan. a. In addition, all Trade Contractors shall provide a competent safety person to monitor all aspects of the Trade Contractors' work in accordance with the Safety Plan.
	b. All workers must go through Safety Orientation prior to commencing work. Safety Orientations will be held Mondays and Wednesdays at 7:30 am (pending staggered shift(s)) in the Turner jobsite office. Special orientation times will be approved at the discretion of the construction manager.
	c. All Trade Contractor "Principals" are required to attend a monthly safety jobsite walkthrough at the Construction Manager's discretion.
	d. In order to work on this project, a negative drug test is required prior to starting work. For " Drug project testing requirements ", refer to Turner safety program.
2	e. All lifts used on the project site must have powered steering front wheels.
3.	All deliveries requiring a crane (excluding the tower cranes) will require an approved lifting plan per Turner's safety plan and must be approved by Turner and UK. A UK lifting plan must also be submitted to the construction manager to gain approval from UK. Allow six (6) weeks minimum prior to the crane arriving onsite to gain these approvals.
4.	It is the responsibility of the Trade Contractors to contact the local utility locating service and have all utilities located prior to mobilizing heavy equipment used for lifting or hoisting. The Trade Contractors should also contact the Owner (UK), through the Construction Manager, and have all UK owned utilities located as well.
5.	All plastic used on site must be fire retardant.
6.	Smaller floor openings: the respective trade providing opening will cover with reinforced secured plywood. Mark "hole" and maintain as required. Small opening metal deck cutouts will be by respective trade requiring opening; respective trade contractors will comply with OSHA requirements during and after alterations. Floor covers shall be constructed in such a manner to avoid any random kicking off, and elevated high enough to control lifts, etc. from running over them. These covers should be anchored to the concrete floor and painted orange. Note ALL sleeves" are elevated 1-1/2" above rough slab.
C.	BONDS AND INSURANCE
1.	PAYMENT AND PERFORMANCE BONDS The base bid should NOT include Payment and Performance Bonds. Provide, for reference, the additional cost to provide them on the trade contractors Bid Breakout sheet.
	provide areas on the trade confidence bid broaked crieds.

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2.	a. The project will incorporate a Contractor Controlled Insurance Program (CCIP) as described in the CCIP Manual included in the Project Manual. The Lump Sum Base Bid amount should not include on-site worker's compensation costs, commercial general liability, or excess liability costs for this work, in accordance with the CCIP Manual. Trade Contractors are responsible for & must provide evidence of automobile insurance and offsite general liability & worker's compensation. Trade Contractors must submit required forms on the website to be enrolled in the CCIP. i. Trade contractors will not be able to start any work on site until they are enrolled in the CCIP program. This process will take a minimum of two (2) weeks. Any delays caused by late submission shall be borne by the trade contractor responsible. This includes the cost for overtime and extra crews to maintain the project schedule.
3.	ii. All sub tier contractors will be required to enroll in the CCIP program. Builder's Risk Insurance is provided by the Construction Manager per the terms of the General Conditions Article 35.5.
J.	Unless otherwise provided for through agreement, the Trade Contractor experiencing any loss claimed under the builder's risk policy shall be responsible for that loss up to the amount of the deductible. Trade Contractor(s) may provide their own coverage for amounts up to the deductible. Refer to the General Conditions, Article 35.5 for deductible limits.
D.	SITE LOGISTICS
1.	Storage of bulk amounts of materials and equipment is restricted due to limited space on the jobsite and within the limitations of the staging area. This project will be utilizing "Just-in-Time" delivery and "Kit-of-Parts" prefabrication. Trade Contractors must schedule and cycle no more material than can be installed in-place within a 5 day or less period. Moving of materials stored inside the staging areas will be necessary and the Trade Contractors shall promptly respond to any request from the Construction Manager to move material. Trade Contractors shall include required costs for off-site storage and any additional handling of materials involved with offsite storage. a. All building materials (studs, conduit, pipe, forms, etc.) shall be stored on pallets, dunnage, or a sortable material cart. All contractors shall employ a "nothing hits the ground" mentality.
2.	Access to/from the existing surrounding buildings (see SK-001) by the staff, students, public, delivery trucks, etc. is to be maintained at all times. Fire department access must also be maintained to the surrounding buildings during construction. It shall be the responsibility of the Trade Contractors to ensure that all road entrances, exits, fire lanes, building entrances, loading docks, etc. are not blocked by the progress of its work, its deliverymen or contractors in their employ. This is inclusive of providing temporary access and protection including, but not limited to temporary walks, overhead protection, barricades, signage, etc. Temporary provisions are to be in accordance with UK standards. This access and protection shall be to the satisfaction of the Construction Manager.
3.	The University Dr./Veterans Dr, entrance/exit will be used as the main construction entrance/exit (see Gate 2 on SK-002). Secondary entrances (Gate 6 and Gate 7) are also available for use after coordination with the Construction Manager and Yard Boss
4.	Trade Contractors are to provide all street permits , bonds, police details, flagman, off-duty police, street/lane closure permits, traffic control, and barricades as required to complete the work. This includes deliveries of material. Roadways and driveways may not be blocked without prior approval. Furnish copies of all permits to the Construction Manager.
5.	This project is around existing University buildings. Utilities or services , including pavement to the Owner's facilities (and surrounding facilities) must be protected and maintained 100% of the time when possible (as determined by the Owner, Consultant, or Construction Manager). All costs associated with the work required to maintain service shall be the responsibility of the Trade Contractor performing the associated work. The Trade Contractor(s) are responsible to immediately repair any utility damaged or disrupted during the course of its work whether the utility be known or unknown. If the utility is unknown, the Trade Contractor(s) making the repair will be compensated for the work. If the utility is known, the Trade Contractor(s) is responsible and liable for any and all costs of repairs. Failure to immediately repair damaged utilities per the requirements of the utility Owner will result in the work being performed by others at the Trade Contractor's expense. Repair work shall begin immediately and be continuous (24/7) until the service is restored. All costs associated with this work to repair known utilities are the responsibility of the Trade Contractor. If unknown utilities are discovered, they must be reported to the Construction Manager in writing who will in turn investigate with the assistance of the Engineer and Owner.
6.	USE OF PREMISES a. PARKING & TRANSPORTATION:
	i. Contractor parking is <u>NOT</u> permitted on the job site or on the University of Kentucky Campus.
	ii. Turner cannot guarantee that UK will issue passes to any lots on the University campus. Parking is at the discretion of the bidding contractor.
	iii. No parking is permitted in the Whitney Hendrickson Parking Lot or in any UK Parking Structures.
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Any and all parking permitting costs or parking violations shall be borne by the Trade Contractors.

v. Contractors will be able to park in the trailer lot as shown on SK-001. Parking passes will be given out on an as needed basis. Contractor can assume 4 passes per prime contractor in this lot, one for their foreman and the other for their shuttle bus.

b. CAMPUS:

iv.

- Trade Contractors are expressly forbidden to enter existing campus buildings (excluding Dimock)
 except for specific construction purposes. Restrooms, drinking fountains, vending machines, gift shop
 and food service areas are NOT for Trade Contractor use unless otherwise directed by the
 Construction Manager.
- ii. Trade Contractor communications with University Staff, Faculty and students is strictly forbidden.
- iii. "Catcalling" or otherwise harassing University Staff, Faculty, Students, or the general public is strictly forbidden. Noncompliance with this provision is grounds for immediate dismissal from the jobsite. Additionally, the tradesperson and Trade Contractor may be subject to legal action.
- 7. All contractors shall review delivery access routes and include any temporary removal/relocation of existing items (AHU platform rails, stairs, etc.) to transport their materials and equipment.
- 8. **Temporary facilities (toilets)** for this project will be located on or near the project site See SK-001. Trade contractors are not permitted to use the active university building toilets.
- 9. All contractors shall assume all breaks including lunch shall be taken at the Project Break Area (location shown on SK-001). Taking break and lunch at work areas on project site will not be permitted.
- Office and storage trailer(s) will not be permitted onsite due to site limitations. Trade Contractors will be allotted space for one (1) 40'x10' conex box or trailer in the Trailer Lot for storage and/or office space (see SK-001). Stacking of conex boxes is allowed, but must be approved by Turner. Each perspective TC will be responsible for ALL utilities required at conex box. Break area for workers will be located in the Dimock Building (see SK-001).
- 11. Two tower cranes will be provided for use by the contractors.
 - a. Tower Crane hours of operation will be from 7:00 AM and 5:00 PM.
 - i. During Architectural Precast (TC-001) and Curtain Wall (TC-002) overlapping work, (1) one tower crane will be available from 7:00 AM 8:30 PM. TC-002 (Curtain Wall Contractor) will have crane time from 7:00 AM to 12:00 PM. TC-001 (Architectural Precast) will have crane time from 12:30 PM to 8:30 PM.
 - b. Priority for Tower Crane usage:
 - i. Steel Erection/Precast Shafts
 - ii. Architectural Precast
 - iii. Curtain Wall/Metal Panels
 - iv. All other trades
- 12. **Fuel storage** on site is NOT allowed and fueling procedures must comply with applicable regulations, Project Safety Plan and receive the Construction Managers approval. No gasoline or diesel powered equipment will be operated inside enclosed building areas. There will be no fuel storage permitted inside the building.
- All foreman/site lead will be required to carry an **Apple AirTag** when crews are on site. This will allow Turner to know all crews have left the project safely at the end of the day, and the site has been vacated. These AirTags will be purchased by each trade and are to remain with the project at the end of their respective scope. Every subcontractor's crew leader will be required to have an AirTag while they are working on the project. These air tags shall be purchased through Apple with specific engraving requirements determined by Turner. The costs for these air tags are \$29.00 each with a lead time of 1 week.

E. MEANS AND METHODS

- 1. All Trade Contractors must provide all necessary **fasteners**, **supports**, **and attachments** for the installation of their own work. Trade Contractors must submit to the Construction Manager for approval by the A/E, the means and methods in which they plan on attaching hanger/supports to decks.
- 2. Trade Contractors are responsible to survey and inspect all **substrate work** performed by others prior to starting its own work. Any and all discrepancies, out of tolerance work, or otherwise unacceptable work must be reported the Construction Manager in writing prior to the start of work. The start of work indicates acceptance of the substrate material.
- 3. Each Trade Contractors acknowledges that his Work must be **coordinated** with the work of other trades and further agrees to coordinate his shop drawings, details, and submittals with those of other trades to ensure proper installation of all materials in accordance with the Project Schedule.

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- Each Trade Contractor shall **protect** his own Work and materials adjacent to his work until accepted by the Architect, Engineer, Construction Manager and the Owner. Trade Contractors shall be responsible for replacing, repairing, or the expense to repair, any damage caused by the performance of their Contract Work. In the event damages occur to existing work and is unidentifiable to a specific trade, all repairs and replacement costs will be distributed equally to all trades working in that area.
- 5. Each Trade Contractors, upon notice, shall correct all **deficiencies** in a timely manner before proceeding with the next sequence of Work. Trade Contractors shall be financially liable for any delays to the Project or other contractors due to their deficiencies or the untimely correction of their deficiencies.
- 6. Each Trade Contractor requiring **temporary protection or temporary heat** to complete its work in accordance with the Plans, Specifications and Project Schedule is required to provide the protection and/or heating.
- 7. Each Trade Contractor is required to provide its own **temporary power** (generators tentatively not applicable) and lighting if additional is needed beyond the temporary power onsite. All trades are responsible to provide their own power for welders. This includes and wiring, tie-ins, or devices to run their welders. They are not permitted to be run on the temporary power provided for the work of this bid package(s). At no time shall the noise generated by generators be overwhelming or disruptive to University operations. Generators shall be placed to minimize noise and exhaust impacts.
- 8. While working on-site, Trade Contractors shall fill out Construction Manager's **Daily Construction Report (DCR)** form & labor utilization form. These forms are to be delivered to the jobsite (Turner Superintendent interacting with Trade Contractor) office by no later than 10:00 am the following business day. Failure to perform this duty shall result in delay of payment until all reports have been received. The daily report may be available via electronic format for completion of same.

9. CLEAN UP

- a. Trade Contractors are responsible to perform clean up on a <u>continuous basis</u>. This cleaning shall at no time be less than once per day. Each and every work area must have all trash, debris & scrap removed and properly disposed of, all materials neatly stacked and the floor <u>broom swept on a daily basis</u>. Each Trade Contractor is required to maintain sufficient brooms, shovels, and sweeping compound on site to keep his work area clean. If daily cleanup and rubbish removal are not performed to the satisfaction of the Construction Manager or the Owner, cleanup and rubbish removal will be performed by others and all costs will be backcharged to the at fault Trade Contractor's contract. Cleanup operations shall not 'wait' until end of the week. Trade Contractors will include all costs for daily cleanup in the contract price.
- b. At no time shall the streets, building, or areas that surround the work be in a disorderly or dirty condition.
- c. All private and public paved roadways, parking areas, service roads, etc., are to be kept free of mud, debris, etc., resulting from equipment or vehicles performing the work under their respective Trade Contract, in compliance with local city Ordinances. All Trade Contractors are responsible to include in their contract price dust and mud control, traffic control and roadway cleaning. All Trade Contractors are responsible to clean streets of any debris or spillage of any material as a result of the performance of their work as directed by the Construction Manager. Scraping streets 'clean' with a backhoe or "skid steer" is not acceptable debris control. All street cleaning conducted must be swept clean in addition to scraping up of large debris. All paved areas are to be kept "broom clean" at all times. Failure to do so may result in serious fines imposed on each violating Trade Contractor. Any charges directed at the Construction Manager by others, due to the fact that this procedure is not being implemented, will be backcharged to the offending Trade Contractor. Dust control measures shall be provided by all trade contractors as necessary for their work.
- d. Burning of trash is NOT permitted.
- e. Dumpsters will be provided for general construction debris ONLY in accordance with scopes of work and these general requirements. Locations for construction debris will be coordinated with the Construction Manger. <u>All crating materials must be disassembled and/or flattened prior to placement in dumpsters</u>. All demolished items must be removed in dumpsters or trucks provided by the contractor removing the items. Any materials that require special care and/or disposal shall remain the contractor's obligation to dispose of.
- f. Trash receptacles will be furnished for trash & refuse throughout the building and site as outlined in the specific scopes of work and these general requirements. These receptacles are not for construction debris, packing materials, cartons, pallets, scrap, etc.
- g. It is the responsibility of the Trade Contractors to coordinate the clean-up effort, including removal of non-identifiable items such as lunch wrappers, cans, plastic bottles, etc.
- h. All Trade Contractors are required to perform a final cleaning of its work and the jobsite.
- i. It is each Trade Contractor's responsibility to place refuse and debris resulting from their direct operations in the refuse containers ("Mobile trash carts/cans") and emptied into the site dumpster by that contractor.

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10.	INSPECTIONS a. The Trade Contractors shall coordinate, in a timely manner, all city, county, state, or other inspections as required for the completion of its Work in accordance with the Project Schedule. The Trade Contractors understand that multiple inspections (i.e. in-wall, above ceiling, etc.) may be required per area to maintain project schedule. The Trade Contractors shall schedule these inspections in a timely manner with no added cost to the Construction Manager or owner.
	b. The Trade Contractors shall cooperate with and include the costs of all labor and materials required to assist the Owner's testing/inspection agency with inspections and gathering of samples and assistance in access to the specific locations of tests/inspections, and demonstrations. Initial costs for testing laboratory shall be by others if so noted in documents. Costs for re-test due to noncompliance shall be borne by the offending Trade Contractor. A minimum of 24 hour notice must be given to the testing agency for testing required during normal working hours. If testing is required on weekends, 48 hour notice is required.
	c. Coordinate with the Owner's Testing/Inspection Agency as required by the specifications.
	d. The Trade Contractors will cooperate with and demonstrate system operation and safety compliance with the local building and fire inspectors as needed and required for building occupancy. All associated costs, inclusive of after-hours inspections, are the responsibility of the Trade Contractor installing the system.
11.	All contractors are to understand that this is a LEED certified project. Contractors are to make themselves familiar with the requirements laid out in the specifications and follow those requirements.
12.	Contractors are to verify layout provided by others. Where this subcontractor is performing work using layout provided by others, this subcontractor shall perform sufficient verification of that layout to reasonably ascertain the validity of that layout. Any deficiencies (or suspected deficiencies found) shall be reported to Turner immediately to allow corrections as needed before start of work by this subcontractor. Contractor shall not use any permanent marking (Sharpie, spray paint, etc.) on the concrete slabs.
F.	SCHEDULE
1.	This project will utilize a LEAN scheduling approach to fully-develop this project's scheduling details (See Attachment I). All contractors will be required to participate in reverse-phase, pull-planning scheduling sessions to develop and schedule the construction work. PMs, superintendents, and foreman will be required to participate in these sessions. Participants are expected to come prepared with work scopes broken down into components knowing their scope details, manpower requirements, and expected durations.
2.	This project will utilize the Last Planner System which provide the planning, management, and control tools necessary to efficiently manage the project schedule. In addition to the pull-planning and make ready planning, all contractors will be required to submit a Weekly Work Plan (WWP) weekly to be reviewed by the CM against the schedule as well as participate in daily 15-minute Production Planning Huddles.
G.	DOCUMENT CONTROL
1.	All Trade Contractors will comply with all requirements of the Contract Documents as to Contract Close-Out, including, but not limited to, Operation and Maintenance data, system training, and project record documents. O&M Manuals, training schedules and preliminary as-built drawings are due to the CM prior to 70% trade contractor complete progress billing. The Trade Contractor will be required to submit a form that certifies that all systems, equipment, firestopping comments and incorporated products furnished by the Trade Contractor are complete and operational for the purpose for which the system or product were intended. Each Trade Contractor is responsible to video all start up and training. This video must be of "professional quality" (no cell phone videos) and submitted to the Construction Manager in proper format as part of the Contract Closeout Documents.
2.	All Trade Contractors shall maintain, at the site of the Work, as-built drawings , which will be updated on a weekly basis showing actual installation and all changes in the Work. These drawings will be legibly identified as "Record Documents", with changes noted in a legible, concise and explanatory manner in <u>red ink</u> . The Record Documents are subject to review by the Construction Manager on a weekly basis. Any contractor not keeping a current record of the changes made to its Work on the Record Documents will be subject to having Progress Payments withheld until all changes are brought current to the satisfaction of the Construction Manager. Final As-Built Record Documents must be submitted to the Construction Manager in electronic format. As-built drawings and photos shall be reviewed by the Construction Manager prior to covering the work.
3.	Each Trade Contractor shall submit a submittal schedule to The Construction Manager within 10 days of Contract award. Submittal submission must begin within 15 days of Contract award or sooner if required to maintain the Project Schedule. Schedule shall include material lead times. Please note that all submittals/samples must be sent to Turner Construction's jobsite office for review. Include the costs for any postage required. Submittals will be in accordance with the Special Conditions Article 8.
4.	PROJECT MANAGEMENT SOFTWARE (eComm) a. All Trade Contractors will be required to have an Internet connection, a working email address (checked daily) and utilize eComm, the University of Kentucky's web based project management system.

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Manager, This shall include, but not be limited to: RFI's, daily communication, submittal tracking, etc. Communication forwarded via eComm will be binding as if sent via traditional methods. d. ALL Trade Contractors will be required to submit initial and ALL "later" approved submittals and shop drawings as a scanned electronic file for eComm. Exceptions will be at the Construction Manager's and Owner's discretion. The file format will be at the discretion of the Owner and the Construction Manager. If a Trade Contractor fails to comply with this provision, they will be responsible for all costs incurred by the Construction Manager to have said drawings and submittals scanned. Refer to Special Conditions for additional detail. Reference General Conditions for number of "copies". Contractor change order requests shall be provided with sufficient detail (as acceptable to Turner) to allow for 5. satisfactory review. Contractor shall be allowed a maximum mark up for overhead and profit per the markup provisions included in the Subcontract Agreement, or as clarified in Contract Documents. All Change Order Requests, Time & Material Tags, and Pricing Submissions will be in electronic format and shall be submitted to Turner using the Clearstory project management system. Clearstory is no cost to Subcontractors and will help the project team collaborate on change orders, pricing requests, and T&M tags. 6. All **Applications for Payment** and all supporting documents (including but not limited to lien waivers, sworn statements, and the like) for Subcontractor and its sub-subcontractors and suppliers, shall be in electronic format and shall be submitted to Contractor using the Textura-CPM™ payment management system. Subcontractor shall be responsible for the fees and costs owed associated with Subcontractor's use of the Textura-CPM™ payment management system. Subcontractor shall include a similar provision in its sub-subcontracts and purchase orders. Fees to Subcontractors are calculated as 0.22% (22 basis points) of contract value, with a minimum fee of \$50 and a maximum fee of \$5,000. Fees to Subcontractors' sub-subcontractors and suppliers are a fixed fee of \$100 per sub-subcontractor or supplier contract. Η. SITE SPECIFIC TC-019 Site General Trades is to provide & maintain, one-hundred (100 ea) 20# fire extinguishers with free standing stands placed throughout the site in accordance with Turner Construction and OSHA standards for the duration of their contract. Provide initial certification upon delivery and re-certification as needed. 2. TC-019 Site General Trades will furnish and maintain twenty (20) (minimum 55 gallon Rubbermaid drum) trash cans for miscellaneous trash (not construction materials) from the commencement of the project. Trash cans to remain at the project after completion of this contract or when no longer required as dictated by the CM. TC-019 Site General Trades contractor will furnish (repair or replace when necessary) thirty (30) new, mobile, one 3. cubic yard, covered trash carts. Trash carts should be equipped with a lid or some form of covering. Trash carts to remain at the project after completion of this contract or when no longer required as dictated by the CM. TC-019 Site General Trades shall provide two (2) 30-yd dumpsters at all times and all required quantity of "pulls" for 4. general construction debris for the duration of their contract. Note: these dumpsters are intended to be used for general construction debris ONLY, not debris associated with excavation activities. Dumpsters for excavation activities will be provided and maintained by others. All contractors to follow specification section 01 7419.01 (COMPLETE). Please note the requirements to sort debris for the purpose of recycling. In addition to the (2) general debris dumpsters, TC-019 Site General Trades shall provide (2) dumpster for the purposes of recycling per the site LEED requirements. Include all required pulls for 39 weeks. TC-019 Site General Trades shall provide custom dumpster covers similar to ALCO Roll Off Container Covers for all dumpsters provided. Contractor shall include covering dumpsters whenever they are not in use and uncovering when they need to be used. Location of dumpsters to be coordinated with CM. Dumpsters to be emptied on a consistent and regular basis to support the construction operations. Contractor shall include relocating the dumpsters as needed to facilitate construction activities. If any contractor will be generating any concrete, asphalt, or CMU waste, that contractor is responsible for providing a dedicated recycling dumpster for that material. Each contractor shall provide receipts, weight tickets, and manifests indicating receipt and acceptance of recyclable waste by recycling and processing 5. TC-019 Site General Trades to provide an all-terrain telehandler (Lull/JLG) for use by all trades for the duration of their contract. The Lull will be used for material deliveries, trash removal, site fence maintenance, and other miscellaneous site activities as needed. In the event of Lull downtime there will be no compensation resulting from equipment failure. Lull basis of design is a 10,000lb rated machine.

b. All Trade Contractors will be required to utilize eComm as required by the University and the Construction

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	TC 010 Site Canaval Trades to maintain a (1) self-dumning 4 au vid hanner to be used for track provided by
	a. TC-019 Site General Trades to maintain a (1) self-dumping 4-cu. yd. hopper to be used for trash provided by others. Hopper to remain at project site at conclusion of this contract. Contractor to include all maintenance needed so there is no downtime.
	 TC-019 Site General Trades is responsible for maintenance and all fuel for the Lull for the duration of their scope of work.
6.	TC-019 Site General Trades shall provide a full time Yard Boss/Operator [(5) 10-hour work days/week = 50
	<u>hrs./wk.)]</u> for the 39 weeks. This person will be responsible for tasks including but not limited to the following: opening and closing the site gates daily, scheduling and coordinating deliveries, operating the Lull for deliveries and trash removal, operating street sweeper, etc. This person shall have a minimum of 10 years of construction experience and possess all applicable equipment certifications (all-terrain lift, scissor lift, boom lift, street sweeper, etc).
7.	TC-019 Site General Trades to maintain, or provide where noted, Temporary Construction work as noted below and as shown on the project drawings & Site Logistics plan:
	 a. TC-019 Site General Trades to maintain 8' chain link construction fence provided by others (per UK standards) for the perimeter of all construction areas, trailer areas, and laydown areas as shown on Site Logistics Plans. Include costs to maintain all fencing, gates, locking material 24/7 for duration of this contract. Fence to be a combination of jersey barriers and driven posts. Provide and maintain safety signage at 20' o.c. max intervals on fence as directed by Construction Manager. Provide a 24/7 on-call representative for immediate response to emergency corrections/maintenance as needed. The site fencing will remain after the completion of this contract, removed by others at a later date, and turned over to the owner. i. Maintain (2) automatic rolling gate closer devices at the 40' entrance (Gate #2) with keypad access. ii. Include necessary hours and equipment to modify/move fence panels/jersey barriers as needed. iii. For water-filled jersey barriers, include filling with water and maintaining water levels required for safety. Treat water for winter usage when necessary. Include replacement of damaged barriers as needed. iv. Maintain fence screening for entire perimeter of fence. v. This contractor shall maintain deck system installed around trailer and restroom complex in the laydown area. b. Maintain a sidewalk canopy scaffold system for overhead protection of the sidewalk adjacent to fence along
	 University Drive from Huguelet Drive to the Behavioral Science Building. Maintain a clear height of 8' throughout. Scaffold shall be properly secured to prevent uplift and overturn. i. Maintain and replace lights/bulbs in the canopy system as needed. Lights to never be down for more than an 8 hour period. c. This contractor to inspect fence and overhead protection daily and repair deficiencies as needed. Maintain log of inspections. Submit log to Construction Manager once per week. d. This contractor is responsible for opening and securing the site at the end of the day. This includes all gates. e. This contractor is responsible for installation of concrete walk and stairs in front of the Dimock building (see SK-001) ii. Assume the walkway to be 4" thick 4000psi concrete, 8' wide, 100' long, 4" of subgrade. Walk is to pour flush with existing concrete curbs. Include wire mesh per UK standards. iii. Assume the stairs to be 4000psi concrete, 8' wide, 3' tall, and 4 treads. Stair shall include a rod iron metal railing securely fastened to the stairs.
	f. This contractor shall maintain and remove when no longer needed plywood protection over the windows on the east side of Dimock installed by others.
8.	TC-019 Site General Trades is responsible for all grass cutting and weed eating inside the site limits and the Trailer and Laydown Yards as well as both sides of the fence line twice per month.
9.	TC-019 Site General Trades shall provide a full-time on-site street sweeper (assume Laymor Sweepmaster 300 or similar). Provide street cleaning as necessary, with a minimum of twice daily for the duration of this contract. Provide power sweeping and scrubbing of all paved areas, sidewalks, etc. soiled as a result of the work inside and outside of project site limits to the satisfaction of the Construction Manager. This Trade Contractor must clean all adjacent streets and maintain as if there were no construction site in the area. Huguelet Drive, University Drive, Veterans Drive any other impacted streets must be swept daily for the duration of this contract. Street must be immediately swept and cleaned if there is excessive tracking as determined by the Construction Manager. Any and all costs associated with street cleaning, inclusive of permits and fines will be the responsibility of this Trade Contract. In the event of sweeper downtime there will be no compensation resulting from equipment failure.
10.	TC-019 Site General Trades contractor to provide twice per week cleaning services for the CM offices located inside the Dimock Building (Approximately 2,000 SF) as well as the Office and Restroom Trailer Complex located to the east of University Flats (Approximately 4,000 SF) for 39 weeks. This shall be completed by a contractor that specializes in cleaning and is approved by the CM. Cleaning shall include, but is not limited to sweeping and mopping floors, taking out trash, restocking paper supplies in the restrooms, cleaning plumbing fixtures, furnish paper supplies for restrooms, replacing trash can liners, wiping down surfaces, etc. This cleaning shall be completed outside of working hours. a. Provide and maintain boot scrubbers at entrances to CM offices at both the Dimock Building and Office Trailer.

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 11 12.019 Site General Trades contractor will maintain the Project Break Area for 39 weeks. Assume Project Break Are is 2000 sqft. This includes, but is not limited to: a. This contractor to include professional cleaning (mopping floors, wiping down tables, wiping of chairs, cleanin of microwaves, cleaning of refrigerators, trash removal, replacing of can liners, cleaning of walk off mats, etc., minimum 3 times weekly by a competent cleaning company to be approved by the CM. This shall be complet after working hours b. This contractor shall include a deep clean/scrubbing of the Project Break Area once per month for the 39 wee duration. Assume this is done on weekends outside of work hours. 12. 17-013 Site Plumbing has provided temporary water and should coordinate the final location(s) on the site with CM a. This contractor has provided and will maintain (2) spajeds that are protected from equipment and freeze-protected that are to be left behind and disconnected by others at the completion of the project.		b. Provide cleaning as needed along travel path from the entrance of the Dimock Building to the CM Office (at minimum twice/day).
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all work necessary to allow each car to stop and be used at each floor prior to concrete being placed.		iv. The buck hoist installation shall precede the installation of concrete on each floor. This contractor shall include

PROJECT GENERAL REQUIREMENTS

- v. This contractor shall include all material and labor needed for each car to stop at every floor. Contractor shall include rework of existing cable rail and installation of fall protection from the buck hoist stop to the guard rail installed.
- vi. Contractor shall include a weatherproof vestibule at each floor to enclose both buck hoist stops. Assume that each shall be a plywood structure with a set of 4'x8' double doors with self closing hinges. Assume each structure to go from floor to deck, is 20' wide, and 10' deep. Contractor to install a call station at each floor for each car.
- vii. This contractor shall include all maintenance as need on this buck hoist system including 24/7 response if failure occurs. Assume that maintenance shall be coordinated with onsite work and will be performed outside of working hours.
- viii. This contractor shall include a **Receiving Dock** to be built around the buck hoist (See SK-001). This dock shall be built to a height able to receive truck deliveries without a lift gate and made out of pressure treated wood. Assume dock to be 1,600 sqft. Contractor shall include all maintenance of this dock for the duration of their contract.
 - 1. This dock shall include fall protection railing around the entire perimeter. Contractor to include eight (8) 6' wide removable openings for receiving deliveries and dumping trash.
 - Include all safety requirements for the installation of the buck hoist near this dock.
 - 3. Include 2 sets of stairs from the dock to the ground.
- b. TC-019 Site General Trades shall provide Scaffold Stair towers in stair shafts for Stair B, C, and D. Contractor shall assume rental of each stair for 20 weeks.
 - Contractor to assume these stairs are to be installed from the Basement through the top of each respective stair tower.
 - ii. Contractor to assume that these will follow the installation of the metal deck installation for that area. Stair shall be elevated to the deck within two weeks of the decking being placed on each respective floor and area.
 - iii. Contractor to assume that each stair tower will need to be removed floor by floor in coordination with the permanent stair installations to never lose stair access to a floor.
- c. TC-019 Site General Trades shall provide a Transport Platform from 1st floor to basement to be placed in the south "Garden Area" of the building (see SK-001) for the duration of their contract. Contractor to provide BetaMax Max Climber 4000 or equal.
 - Contractor shall include all work needed to provide a fully functioning transport platform. This includes, but is not limited to, foundations, safety equipment, electrical connections, design, fees, permits, inspections, etc.
 - ii. This contractor shall include all maintenance as need on this buck hoist system including 24/7 response if failure occurs. Assume that maintenance shall be coordinated with onsite work and will be performed outside of working hours.
- d. TC-019 Site General Trades shall provide two Loading Platforms to be installed and moved as need to assist in construction. Contractor shall provide Preston Deck SuperDeck 3.2 or similar with approval by the CM. Contractor shall assume rental for 30 weeks
- e. TC-019 Site General Trades shall provide Temporary Infill for Permanent Pan Stairs.
 - Contractor to assume that infill will be 2"x10" pressure treated wood cut to the full width of the stair. No foam will be allowed. Contractor shall install the wood so that no slippage occurs during use.
 - ii. Contractor to assume that each stair will need to be infilled floor by floor in coordination with the permanent stair installations to never lose stair access to a floor.
 - Contractor shall coordinate the removal of temporary infill with the permanent stair infill installation by the SOMD contractor.

All contractors and their sub tiers are to provide 2% of their total labor force hours to a **consolidated clean up crew**. Participation in this effort does not relieve the contractor of their daily clean up duties.

- a. **TC-019 Site General Trades** shall provide a Clean Up Crew foreman for 5 10 hours day for a total of 50 hours a week for 30 weeks. This person shall have no other responsibilities than managing this crew. This person shall be efficient in the scheduling and managing of manpower.
- b. Every contractor will be given notice of the day they are required to supply manpower to this crew. On that contractor's scheduled day, they will supply a worker to the clean up crew foreman by 7:30a with a broom and shovel. This worker shall take break and lunch for the day with this crew. Inability to supply a worker for the day and/or a broom or shovel shall result in a worker or material being provided for you and back charged to the offending contractor.

ADDENDUM NO. 1.0 07/24

FOR THE PROJECT TITLED:

Health Education Building
UK Project No. 2564.0-11-25 TC-017 Electrical Equipment
JRA Project No. 202170

University of Kentucky Lexington, Kentucky

To: Prospective Bidders

From: JRA Architects

301 E. Vine Street Lexington, KY 40507

Project Contact: D. Robert Deal, AIA, LEED AP

The Addendum will form a part of the Contract Documents and modifies the original Bidding Documents dated May 2024.

Bidders must acknowledge receipt of this Addendum in the space provided on the Form of Proposal. Failure to do so may subject the bidder to disqualification.

Bidding Documents, including the Drawings and Specifications, are amended as described herein.

ADDENDUM ITEMS:

ITEM NO. 1.01

Refer to drawing E-600Q - ELECTRICAL POWER DISTRIBUTION ONE-LINE DIAGRAM BP-4

- A. Fire pump enclosed circuit breakers have been increased to 1500A rated.
- B. Panel GDB circuit breakers have changed.
- C. Transformer 'TGP' has changed to 500kVA rated.

ITEM NO. 1.02

Refer to drawing E-600Q - ELECTRICAL POWER DISTRIBUTION ONE-LINE DIAGRAM BP-4

D. Feeder for HRCH-1 has been added to substation SUB1A.

ITEM NO. 1.03

Refer to drawing E-700Q - ELECTRICAL PANEL SCHEDULES

E. Circuit breaker changes have been made to multiple panels on this drawing.

ITEM NO. 1.04

Refer to drawing E-701Q - ELECTRICAL PANEL SCHEDULES

F. Circuit breaker changes have been made to multiple panels on this drawing.

ITEM NO. 1.05

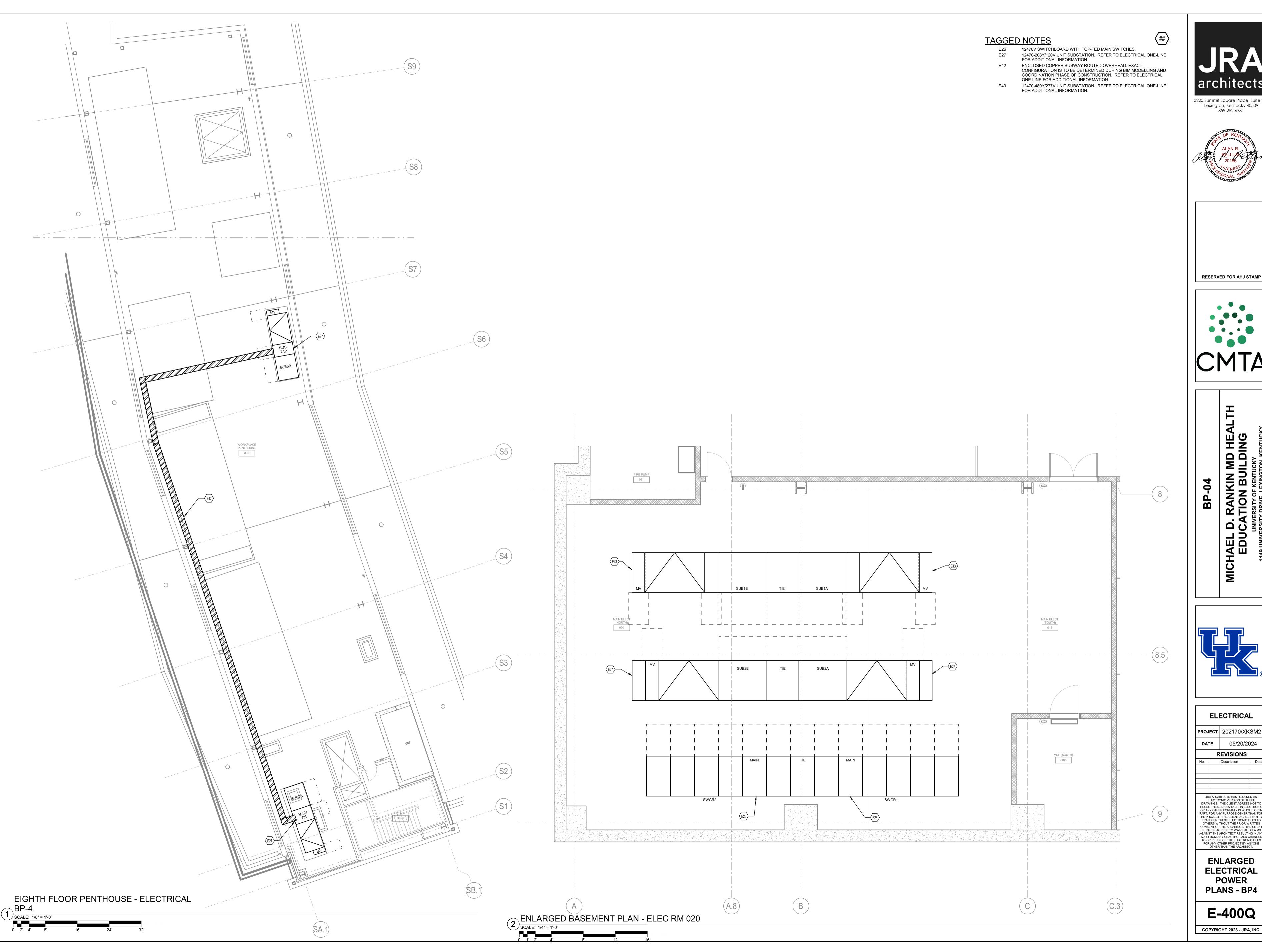
Refer to drawing E-702Q – ELECTRICAL PANEL SCHEDULES

G. Circuit breaker changes have been made to multiple panels on this drawing.

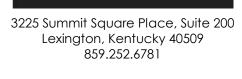
ITEM NO. 1.06

Refer to drawing E-703Q - ELECTRICAL PANEL SCHEDULES

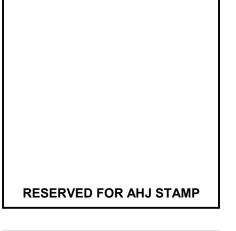
H. Circuit breaker changes have been made to multiple panels on this drawing.



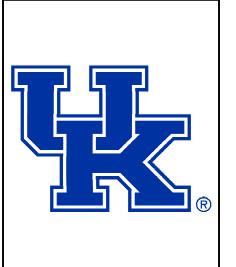


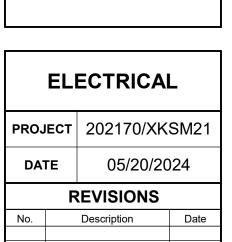








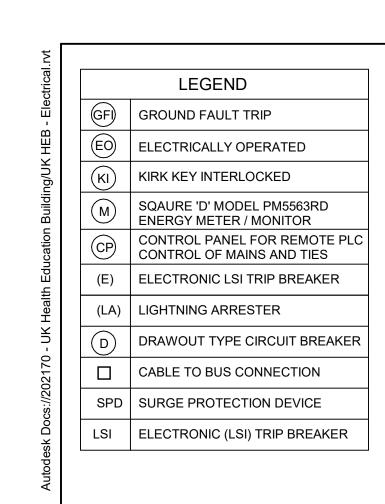




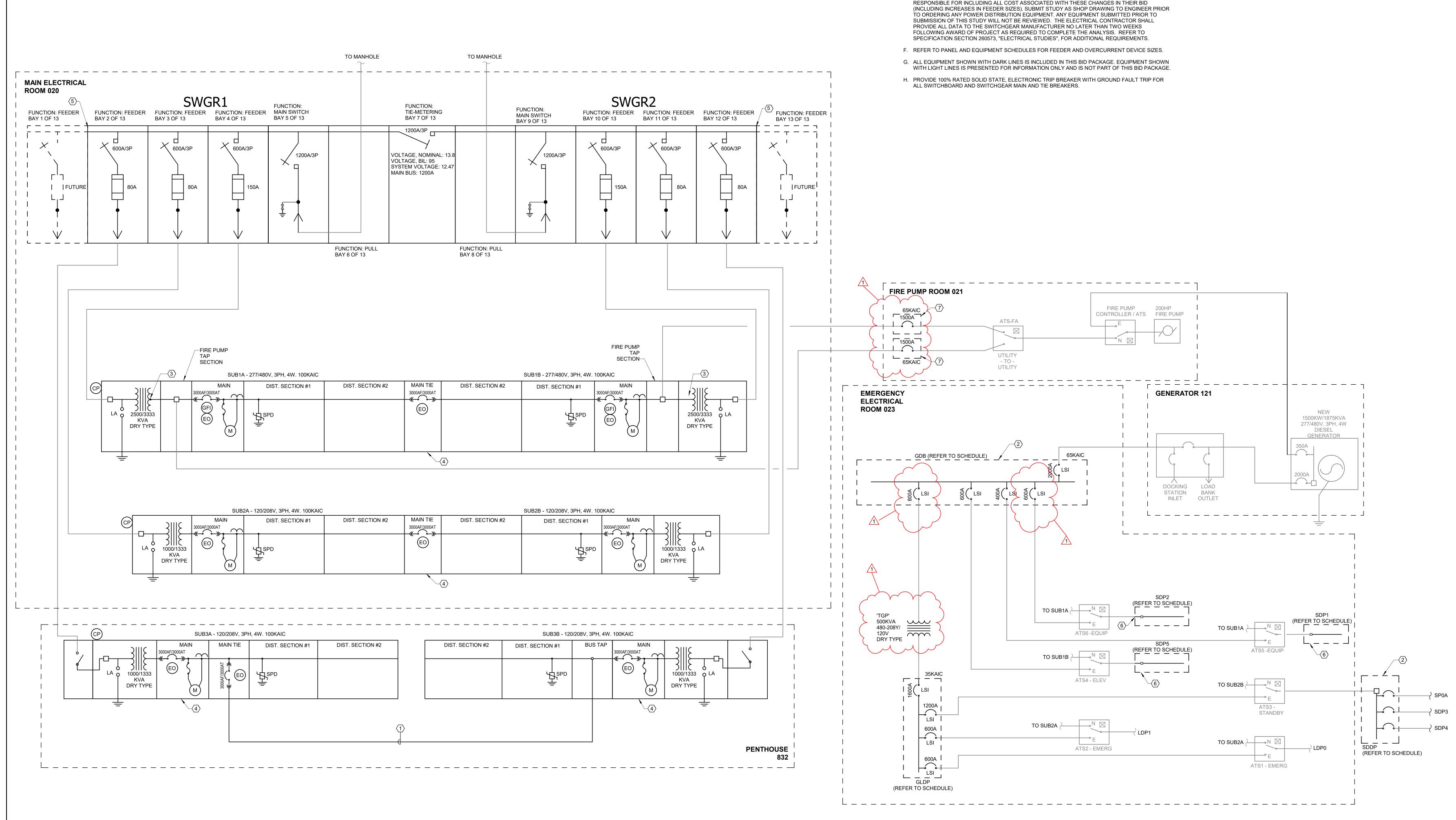
JRA ARCHITECTS HAS RETAINED AN
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OTHERS WITHOUT THE PRIOR WRITTEN
CONSENT OF THE ARCHITECT. THE CLIENT
FURTHER AGREES TO WAIVE ALL CLAIMS
AGAINST THE ARCHITECT RESULTING IN ANY
WAY FROM ANY UNAUTHORIZED CHANGES
TO OR REUSE OF THE ELECTRONIC FILES
FOR ANY OTHER PROJECT BY ANYONE
OTHER THAN THE ARCHITECT. **ENLARGED**

ELECTRICAL POWER PLANS - BP4

E-400Q



BP-4 POWER DISTRIBUTION RISER DIAGRAM



RISER KEYNOTES

GENERAL NOTES: (POWER DISTRIBUTION RISER DIAGRAM)

INFORMATION.

ADDITIONAL REQUIREMENTS.

A. ALL NEW CONDUCTORS SHALL BE COPPER (REFER TO SPECIFICATIONS FOR TYPES).

C. REFER TO PANEL SCHEDULES FOR EQUIPMENT ACCESSORIES, BREAKER SIZES, AND RELATED

PER NPFA-70E AND OSHA REQUIREMENTS. ALL LABELS SHALL BE AFFIXED PRIOR TO FINAL

D. AS PART OF THIS CONTRACT, PROVIDE A COMPREHENSIVE ARC FLASH HAZARD ANALYSIS FOR ALL

ELECTRICAL INSPECTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DATA TO THE SWITCHGEAR MANUFACTURER NO LATER THAN TWO WEEKS FOLLOWING AWARD OF PROJECT AS

REQUIRED TO COMPLETE THE ANALYSIS. STUDY SHALL INCLUDE ALL EXISTING EQUIPMENT IN

E. AS PART OF THIS CONTRACT, PROVIDE A COORDINATION/FAULT CURRENT STUDY FOR BREAKERS

ON THIS PROJECT. STUDY SHALL INCLUDE ALL MAINS AND FEEDERS SHOWN ON THESE DRAWINGS AND SHALL EXTEND TO THE MAIN LUGS OR BREAKER OF THE FURTHEST DEVICE DOWNSTREAM. THE EQUIPMENT, CRITICAL, AND LIFE SAFETY EMERGENCY POWER SYSTEMS SHALL BE SELECTIVELY

COORDINATED TO 0.1 SECONDS THROUGH BOTH THE UTILITY AND GENERATOR DERIVED SYSTEMS. EQUIPMENT PRESENTLY SHOWN IS THE BASIS OF DESIGN - OTHER MANUFACTURERS LISTED AS

EQUALS MAY NEED TO MODIFY LAYOUTS AND EQUIPMENT IN ORDER TO MEET THIS REQUIREMENT.

MODIFICATION TO EQUIPMENT INDICATED ON THESE DRAWINGS IS REQUIRED IN ORDER TO ACHIEVE

ALL MANUFACTURERS MUST UTILIZE ELECTRONIC TRIP BREAKERS WITH ADJUSTABLE TRIP

SETTINGS WHERE REQUIRED TO MEET SELECTIVE COORDINATION REQUIREMENTS. WHERE

COORDINATION, THESE CHANGES SHALL BE CLEARLY NOTED IN THE STUDY. WHERE ACTUAL BREAKER AMPACITIES ARE INCREASED TO ACHIEVE COORDINATION, THE CONTRACTOR IS

EXISTING FACILITY. REFER TO SPECIFICATION SECTION 260573, "ELECTRICAL STUDIES", FOR

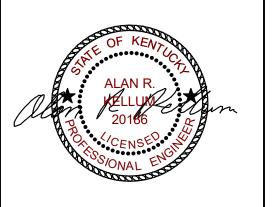
POWER DISTRIBUTION DEVICES ON THIS PROJECT. PROVIDE ALL LABELS, WARNING SIGNAGE, ETC.

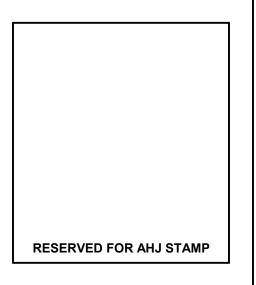
B. REFER TO SPECIFICATIONS FOR TYPICAL PANEL LABELING REQUIREMENTS.

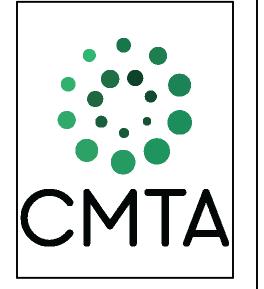
- 1. 3000A 277/480V/3PH/4W 100KAIC ENCLOSED COPPER BUSSWAY WITH 100% NEUTRAL.
- 2. PROVIDE DISTRIBUTION PANEL WITH ELECTRONIC TRIP BREAKERS.
- 3. PROVIDE DOUBLE LUGS ON SUBSTATION SECONDARY TO FEED FIRE PUMP ATS.
- 4. PROVIDE OVERHEAD CIRCUIT BREAKER LIFTING DEVICE. MOUNT AT TOP FRONT OF SWITCHBOARD WITH HOIST AND LIFTING YOKES MATCHING EACH DRAW-OUT CIRCUIT
- 5. FURNISH WITH BUS AND ENCLOSURE PROVISIONS NECESSARY FOR FUTURE EXTENSION TO ADDITIONAL SWITCH COMPARTMENTS.
- 6. PROVIDE INTEGRATED METER FOR PANEL MAIN LUGS.
- 7. ENCLOSED CIRCUIT BREAKERS SHALL BE SERVICE ENTRANCE RATED.



3225 Summit Square Place, Suite 200 Lexington, Kentucky 40509 859.252.6781







HAEL D. RANKIN MD HEALT
EDUCATION BUILDING
UNIVERSITY OF KENTUCKY
1149 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



 ELECTRICAL

 PROJECT
 202170/XKSM21

 DATE
 05/20/2024

REVISIONS

No. Description Date

1 BP-4 FINAL ADDENDUM 07/24/2

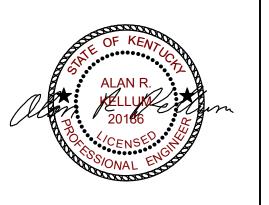
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FOR ANY OTHER PROJECT BY ANYONE
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ELEC POWER
DISTRIBUTION
ONE-LINE
DIAGRAM BP4

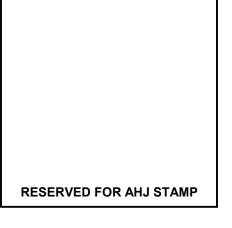
E-600Q

- 1. LOW VOLTAGE SWITCHBOARD PORTION OF UNIT SUBSTATION. REFER TO SUBSTATION DIAGRAM FOR ADDITIONAL INFORMATION.
- 2. DISTRIBUTION PANELBOARD. REFER TO SCHEDULES FOR ADDITIONAL INFORMATION.



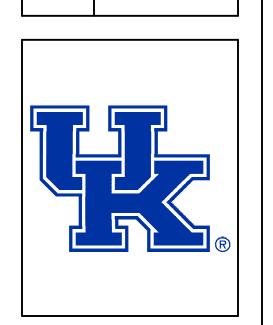


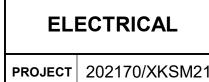
Lexington, Kentucky 40509 859.252.6781





RANKIN MD HEAL TION BUILDING MICHAEL





DATE 05/20/2024

REVISIONS Description Date
BP-4 FINAL ADDENDUM 07/24/24

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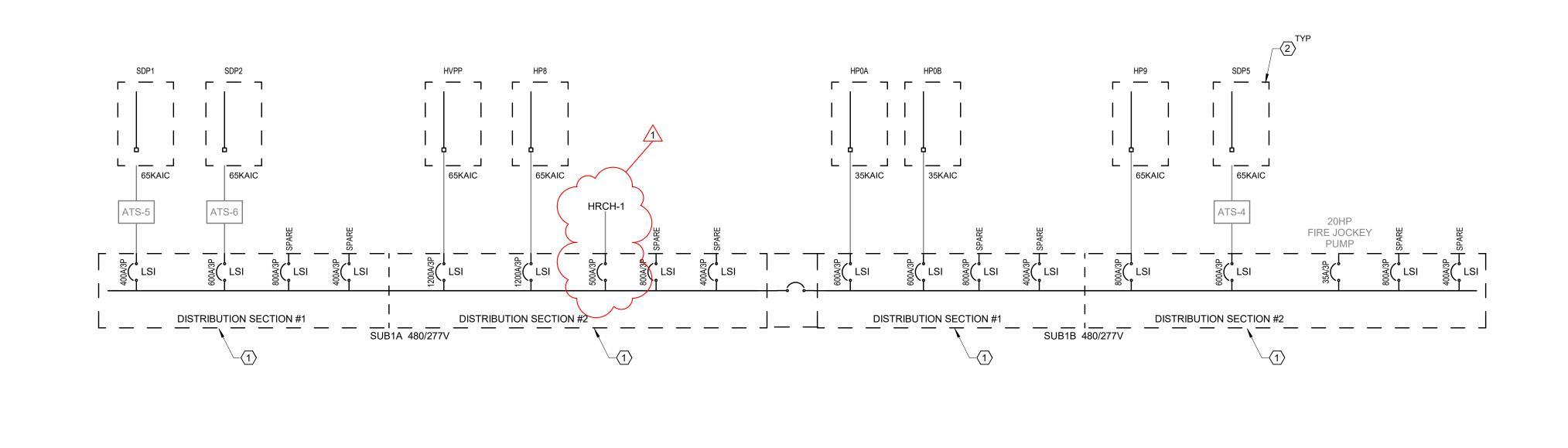
OTHER THAN THE ARCHITECT.

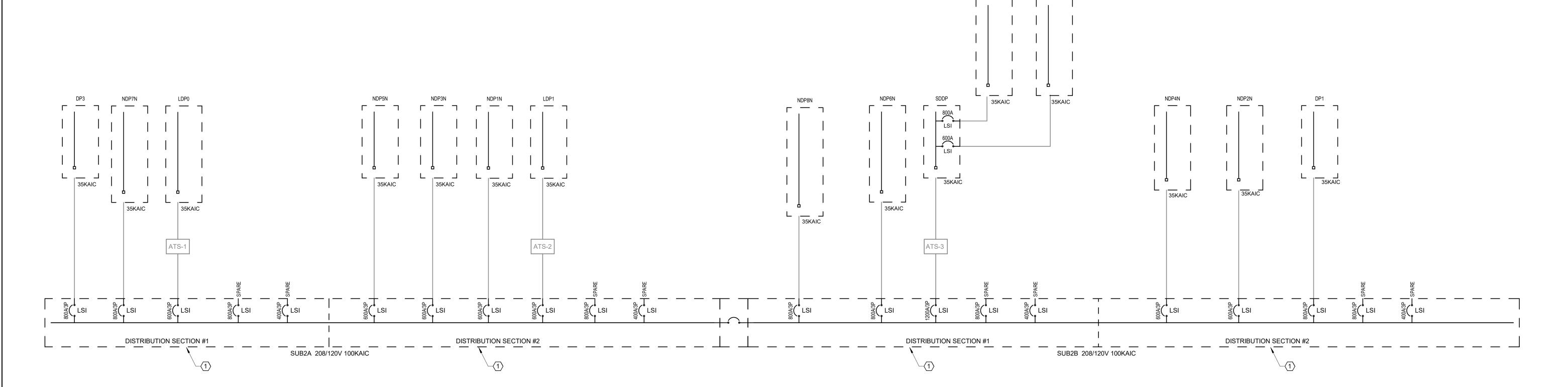
ELECTRICAL **POWER DISTRIBUTION** ONE-LINE **DIAGRAM** -

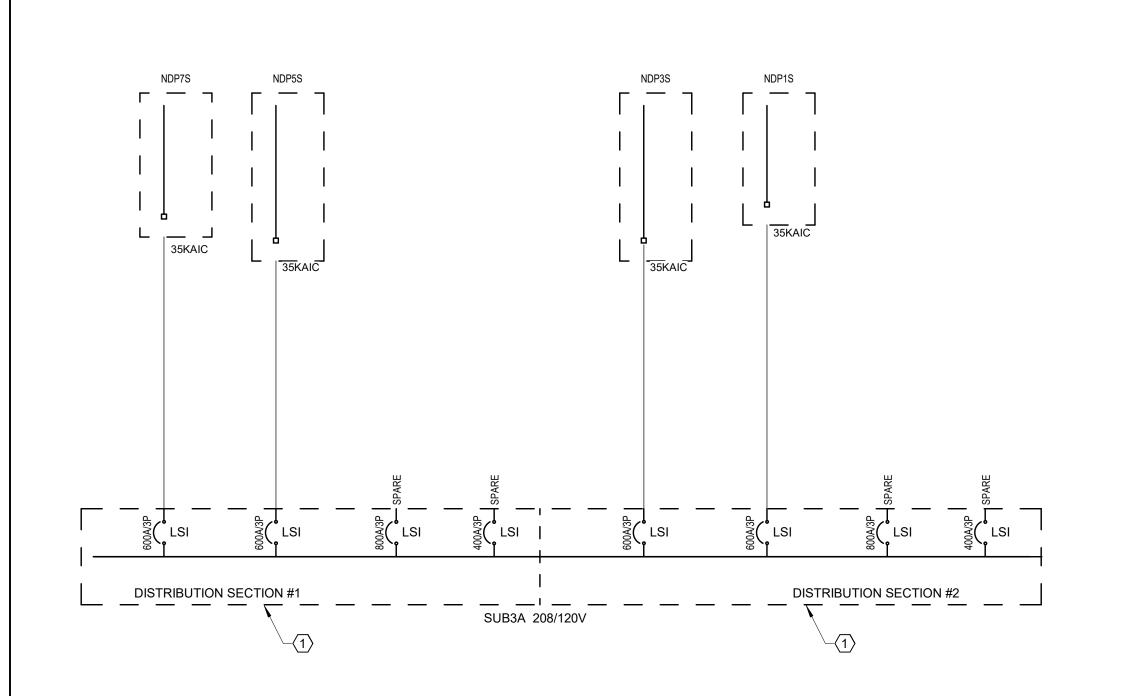
BP4 E-601Q

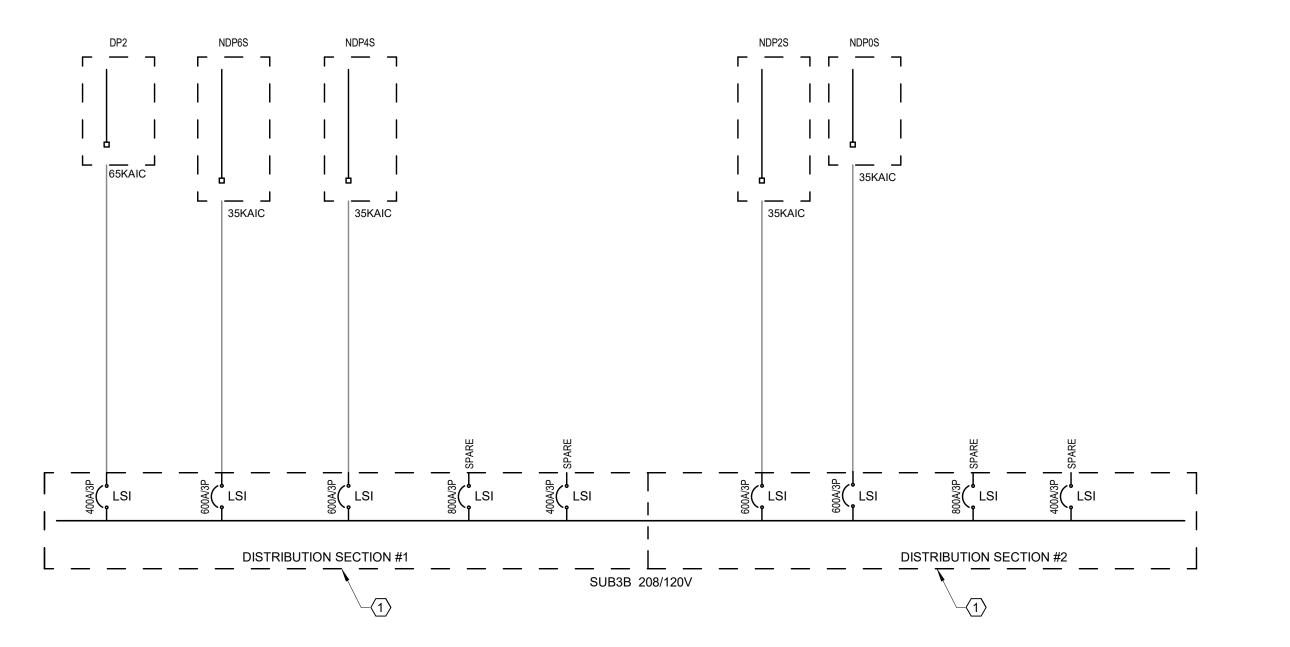
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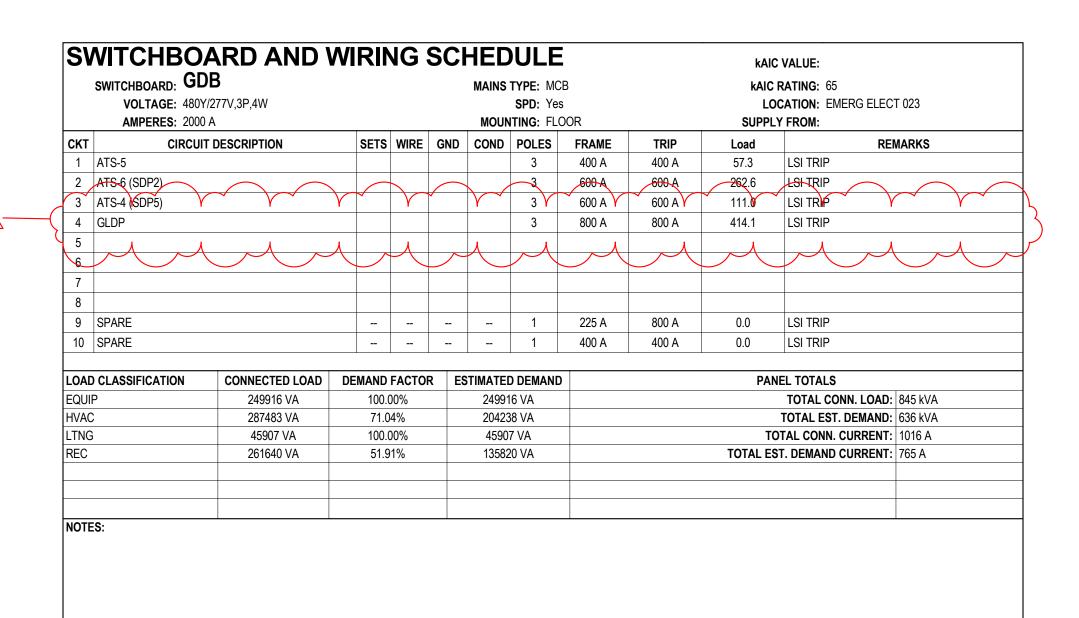
E-601Q - BP-4 ONE-LINE DIAGRAM 1) SCALE: NONE











	SWITCHBOARD: GL						MAINS	TYPE: MCI	В			RATING: 35				
	VOLTAGE: 208Y AMPERES: 1600						MOLIN	SPD: No ITING: FLC)OR		_	CATION: EMERG ELEC Y FROM: TGP	Т 023			
CKT		T DESCRIPTION	SI	ETS	WIRE	GND		POLES	FRAME	TRIP	LOAD (kVA)		MARKS			
1	ATS-3 (SDDP)							3	1200 A	1200 A	333.0	LSI TRIP				
2	ATS-2							3	600 A	600 A	18.4	LSI TRIP				
3	ATS-1							3	600 A	600 A	62.8	LSI TRIP				
4																
5																
6																
7																
8																
9	SPARE			-				1	600 A	600 A	0.0	LSI TRIP				
10	SPARE			-				1	400 A	400 A	0.0	LSI TRIP				
	CLASSIFICATION	CONNECTED LOAD			ACTO	R E		D DEMAND								
EQUI		97274 VA		100.00			9727			414 kVA						
HVAC		9300 VA		100.00			9300			TOTAL EST. DEMAND:						
LTNG	i	45907 VA		100.00			4590			1149 A						
REC		261640 VA		51.91	%	-	13582	20 VA			IOIALES	ST. DEMAND CURRENT:	800 A			
						-										
						_										
NOTE	··S:															

	PANEL: SDDP					MAIN		E: MLC)			PANEL INTERRUPTING RATING: 35k							
	VOLTAGE : 208Y/120V,3P,4W						SPI					LOCATION: MAIN ELECT (SOUTH) 018							
	AMPERES: 1200 A					MO	UNTING	G: SUF	RFACE						SUPPLY FROM: ATS	-3			
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	Р	СКТ		4		В		С	CKT	Р	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	N		
1	SDP3	3 runs of 3-#400, 1-#400, 1-#1/0	800	3	1 3 5	73.6	30.5	65.8	31.2	69.0	28.0	4 6	3	600	2 runs of 3-#350, 1-#350, 1-#1	SDP4			
					7	12.1				00.0		8	1			SPACE			
1	SP0A	3-#300, 1-#300, 1-#4	225	3	9			11.6				10	1	_		SPACE			
					11					11.1		12	1			SPACE			
	SPACE		-	1	13							14	1	-		SPACE			
	SPACE		-	1	15			-	-			16	1	-		SPACE			
	SPACE			1	17					-	-	18	1	-		SPACE			
	SPACE			1	19		-					20	1	-		SPACE			
	SPACE			1	21				_			22	1			SPACE			
	SPACE			1	23							24	1			SPACE			
					25	0.0	0.0					26							
1	SPARE		400	3	27			0.0	0.0	0.0	0.0	28	3	225		SPARE			
					29	110	2 12/4	100.4	C 13/A	0.0	0.0	30							
						116.2	2 KVA 9 A		6 kVA 6 A		1 kVA)1 A	-							
LOADO	N ACCIFICATION	CONNECTED LO	AD	DE	RAANIT) FACT	-		MATED						DANI	EL TOTALS			
	CLASSIFICATION		AU	DΕ			UK	E9111			טאי						000050		
EQUIP		70900 VA				.00%			70900							TOTAL CONNECTED LOAD:			
HVAC		5400 VA				.00%			5400							OTAL ESTIMATED DEMAND:			
LTNG		392 VA				.00%			392 \							AL CONNECTED CURRENT:			
REC		256260 VA			51.	95%			133130) VA						MATED DEMAND CURRENT:			
															25	% ADDITIONAL CAPACITY:			
																TOTAL PANEL CURRENT:	728 A		

	PANEL: LDP0					MAIN	IS TYPI	E: MLC)			PANEL INTERRUPTING RATING: 35k LOCATION: ELEC 002 SUPPLY FROM: ATS-1								
	VOLTAGE : 208Y/120V,3P,4W						SPI	D:												
	AMPERES: 600 A					MO	UNTING	G: SUR	RFACE											
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	ОСР	Р	СКТ	Α		В		С		СКТ	Р	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTE			
					1	8.6	3.7					2								
	LP0	3-#3/0, 1-#3/0, 1-#6	150	3	3			8.4	4.4			4	3	150	3-#3/0, 1-#3/0, 1-#6	LP2				
					5					8.7	1.9	6								
					7	3.1	3.8					8								
	_P4	3-#3/0, 1-#3/0, 1-#6	150	3	9			2.1	3.1			10	3	150	3-#3/0, 1-#3/0, 1-#6	LP6				
					11					0.8	3.1	12								
					13	2.3						14	1	-	-	SPACE				
	LP8	3-#3/0, 1-#3/0, 1-#6	150	3	15			6.3				16	1	-	-	SPACE				
					17					2.6		18	1	-	-	SPACE				
	SPACE			1	19		-					20	1	-		SPACE				
	SPACE			1	21							22	1	-	-	SPACE				
	SPACE			1	23							24	1	-		SPACE				
				3	25	0.0	0.0					26								
	SPARE		150		27			0.0	0.0			28	3	150		SPARE				
					29					0.0	0.0	30								
						21.5	kVA	24.2	kVA	17.0	kVA									
						18	5 A	20	8 A	14	2 A									
LOAD C	CLASSIFICATION	CONNECTED LO	AD	DE	MAND	FACT	OR	ESTIN	MATED	DEMA	ND				PANE	EL TOTALS				
EQUIP		23418 VA			100.	.00%			23418	VA						TOTAL CONNECTED LOAD: 6276	61 VA			
HVAC		2420 VA			100	.00%			2420	VA					TC	OTAL ESTIMATED DEMAND: 6276	61 VA			
LTNG		33103 VA			100	.00%			33103	VA					TOT	AL CONNECTED CURRENT: 174	A			
REC		3820 VA			100	.00%			3820	VA						MATED DEMAND CURRENT: 174				
																% ADDITIONAL CAPACITY: 44 A				
			-												23	TOTAL PANEL CURRENT: 218				

	PANEL: LDP1					MΔIN	IS TYP	E: MLC)			PANFI	IN.	TFRRII	PTING RATING: 35k		
	VOLTAGE: 208Y/120V,3P,4W						SP								LOCATION: ELE	C 058	
	AMPERES: 600 A					MOI	_	G: SUF	PEACE						SUPPLY FROM: ATS		
OTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	ОСР	Р	СКТ			В		С		СКТ	Р	ОСР	HOT, NEUT, GND	CIRCUIT DESCRIPTION	- Ir
		,		-	1	3.1	0.4					2	•		,		-
	LP1	3-#3/0, 1-#3/0, 1-#6	150	3	3	• • • • • • • • • • • • • • • • • • • •	V	1.9	2.5			4	3	150	3-#3/0, 1-#3/0, 1-#6	LP3	
		,			5					1.2	0.6	6					\frown
					7	1.0	3.2					8 /		•	Υ . Υ	Y	
	LP5	3-#3/0, 1-#3/0, 1-#6	150	3	9			0.4	0.5			10	3	150	3-#3/0, 1-#3/0, 1-#6	LP7	
					11					1.6	2.0	12	ι		λ λ	\ \ \ \ \	
	SPACE	-	-	1	13		-					14	X	/`		SPACE	\nearrow
	SPACE			1	15							16	1			SPACE	
	SPACE			1	17							18	1			SPACE	
	SPACE			1	19							20	1		-	SPACE	
	SPACE			1	21							22	1	-	-	SPACE	
	SPACE	-		1	23							24	1	-	-	SPACE	
					25	0.0	0.0					26					
	SPARE		150	3	27			0.0	0.0			28	3	150	-	SPARE	
					29					0.0	0.0	30					
						7.8			kVA	5.3							
		•					5 A		1 A	44							
	CLASSIFICATION	CONNECTED LOA	AD	DE	MAND	FACT	OR	ESTI	MATED		ND					L TOTALS	
QUIP		2956 VA			100	.00%			2956	VA					•	TOTAL CONNECTED LOAD: 184	08 V
VAC		1480 VA			100	.00%			1480	VA					TO	TAL ESTIMATED DEMAND: 184	08 V
TNG		12412 VA			100	.00%			12412	VA					TOTA	AL CONNECTED CURRENT: 51 A	4
EC		1560 VA			100	.00%			1560	VA					TOTAL ESTIN	MATED DEMAND CURRENT: 51 A	4
																% ADDITIONAL CAPACITY: 13 A	
																TOTAL PANEL CURRENT: 64 A	

	PANEL: SDP1 VOLTAGE: 480Y/277V,3P,4W					WAIN	SPI	E: MLO D:				PANEL II	HERRU		GINEER TO SPECIFY> IP/ STEAM LOOP VAULT 027	
	AMPERES: 400 A					MOI	UNTING	: SUR	FACE					SUPPLY FROM: ATS	-5	
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT		4	E		(3	CKT P	QCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOT
	Y	Y			Υ ₁	5.8	5.8		Υ		Y	2	 Y	Y	Y Y 1	\
\	CP-1	3-#8, 1-#8, 1-#10	40	3	3			5.8	5.8	50	F 0	4 3	40	3-#8, 1-#8, 1-#10	HWP-1A	\
\succ					5 7	7.5	0.0			5.8	5.8	6 8				$\langle -$
\ ı	FIRE JOCKEY PUMP	3-#8, 1-#8, 1-#10	35	3	9	1.0	0.0	7.5	0.0			10 3	40	3-#8, 1-#8, 1-#10	HWP-1B)
4	λ λ				1 11		٨		٨	7.5	0.0	12	1	λ		_
	SPACE		رت	~	13	_/		\mathcal{L}	\mathcal{I}		\sim	14	<u> </u>		SPACE	
	SPACE			1	15							16 1	-		SPACE	
	SPACE			1	17							18 1	-		SPACE	
	SPACE			1	19							20 1	-		SPACE	
	SPACE			1	21				-			22 1	-		SPACE	
	SPACE		-	1	23							24 1	-		SPACE	
	SPARE		20	3	25 27	0.0	0.0	0.0	0.0			26 28 3	40	_	SPARE	
	0171112		20		29			0.0	0.0	0.0	0.0	30	10		OI / II NE	
						19.1	kVA	19.1	kVA	19.1		00				
) A	69) A	_				
OAD CI	LASSIFICATION	CONNECTED LOA	AD.	DE	MAND	FACT	OR	ESTIN	IATED	DEMAI	ND			PANE	L TOTALS	
HVAC		57297 VA			75.2	4%			43108	VA					TOTAL CONNECTED LOAD: 57297	7 VA
														TC	TAL ESTIMATED DEMAND: 43108	3 VA
														TOTA	AL CONNECTED CURRENT: 69 A	
															IATED DEMAND CURRENT: 52 A	
															% ADDITIONAL CAPACITY: 13 A	
															TOTAL PANEL CURRENT: 65 A	
											KERS T				TOTAL PARLE CORRECT. 03 A	

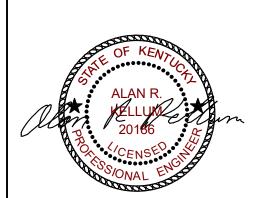
	PANEL: SDP2 VOLTAGE: 480Y/277V,3P,4W					MAIN	IS TYPI SPI)			PANEL	. INT	ΓERRU		GINEER TO SPECIFY> DEMIC PENTHOUSE 1000	
	AMPERES: 600 A			1 _	l		UNTING			1		11	_		SUPPLY FROM: ATS		
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	СКТ		A		В	(C		<u>P</u>	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOT
	LEF-1A	3-#4, 1-#4, 1-#10	60	3	3 5	7.5	6.9	7.5	6.9	7.5	6.9	4	3	50	3-#6, 1-#6, 1-#10	AHU-N-4 RETURN	
	LEF-1C	3-#4, 1-#4, 1-#10	60	3)	7	7.5	44.3	7.5	44.3			8 10	-3	200	3-#350, 1-#350, 1-#4	AHU-NP-4 SUPPLY	\prec
	LEF-1B	3-#4, 1-#4, 1-#10	60	8	11 13 15	7.5	3.9	7.5	3.9	7.5	44.3	12 14 16	3	25	3-#10, 1-#10, 1-#10	SPF-1	
	SFP-2	3-#8, 1-#8, 1-#10	40	3	17 19 21 23	5.8	0.3	5.8	0.3	7.5	0.3	18 20 22 24	3	20	3-#12, 1-#12, 1-#12	ELEVATOR HVAC	
(SPF-3	3-#8, 1-#8, 1-#8	25	3	25 25 27	3.9	-	3.9		5.0	0.3	26 28	1	<u>-</u>		SPACE SPACE	
7	SPACE	\	_	<u>سر</u> 1	29 31					3.9		30 32	1	-		SPACE SPACE	
	SPACE		/ <u>-</u>	1	33							34	1			SPACE	
	SPACE			1	35							36	1			SPACE	
	SPARE		20	3	37 39 41	0.0	0.0	0.0	0.0	0.0	0.0	38 40 42	3	35	-	SPARE	
			1	1	1	87.5	kVA	87.5	kVA	_	kVA						
							6 A		6 A		6 A						
	CLASSIFICATION	CONNECTED LO	AD	DE		FACT	OR	ESTIN		DEMA	ND					L TOTALS	
EQUIP		41690 VA				.00%			41690							TOTAL CONNECTED LOAD: 262	
HVAC		220886 VA			71.	36%			157620	O VA						NTAL ESTIMATED DEMAND: 1999 AL CONNECTED CURRENT: 316	310 VA A
																MATED DEMAND CURRENT: 240	
																% ADDITIONAL CAPACITY: 60 A	
																TOTAL PANEL CURRENT: 300	

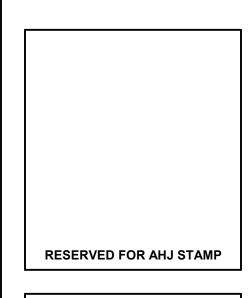
PANEL: SDP3					MAIN	S TYPE	E: MLO)			PANE	L IN	TERRU	PTING RATING: 35k		
VOLTAGE: 208Y/120V,3P,4V	I					SPE):							LOCATION: ELEC	C 002	
AMPERES: 800 A					MOI	_	3: SUR	FACE						SUPPLY FROM: SDD		
NOTES CIRCUIT DESCRIPTION	HOT, NEUT, GND	ОСР	Р	СКТ			5. 00 N			;	СКТ	Р		HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
				1	11.7	15.5					2			- , - , -		
SP1	3-#3/0, 1-#3/0, 1-#6	150	3	3			8.7	13.0			4	3	150	3-#3/0, 1-#3/0, 1-#6	SP3	
				5					9.2	12.3	6			, ,		
				7	15.0	15.5					8					
SP7	3-#3/0, 1-#3/0, 1-#6	150	3	9			14.4	14.7			10	3	150	3-#3/0, 1-#3/0, 1-#6	SP5	
				11					15.2	17.1	12					
				13	15.9						14	1	-	-	SPACE	
SP9	3-#2/0, 1-#2/0, 1-#4	150	3	15			15.0				16	1	-	-	SPACE	
20.425				17					15.2		18	1	-	-	SPACE	
SPACE		-	1	19		-					20	1	-	-	SPACE	
SPACE			1	21							22	1	-	-	SPACE	
SPACE			1	23	0.0	0.0					24 26	1	-		SPACE	
SPARE		150	3	25 27	0.0	0.0	0.0	0.0			28	3	150		SPARE	
SPARE		150	١	29			0.0	0.0	0.0	0.0	30		150		SPARE	
				20	73.6	kVA	65.8	kVA	69.0		- 00					
				-	617		549		579							
OAD CLASSIFICATION	CONNECTED LOA	AD	DEI	WAND	FACT			IATED						PANE	L TOTALS	
EQUIP	57400 VA			100.	00%			57400	VA					•	TOTAL CONNECTED LOAD: 2084	20 VA
HVAC	1400 VA			100.	00%			1400 \	/A						TAL ESTIMATED DEMAND: 1386	
REC	149620 VA			53.3				79810							AL CONNECTED CURRENT: 579 /	
															MATED DEMAND CURRENT: 385 /	
															% ADDITIONAL CAPACITY: 96 A	=
														20	TOTAL PANEL CURRENT: 481 /	\

	PANEL: SDP4 VOLTAGE: 208Y/120V,3P,4W					MAIN	IS I YPI SPI	E: MLC D:)			PANE	LIN	IERKU	PTING RATING: 35k LOCATION: ELE	C 158	
	AMPERES: 600 A					МО		G: SUF	RFACE						SUPPLY FROM: SDD		
NOTES		HOT, NEUT, GND	ОСР	Р	СКТ		4		В		С	СКТ	Р	ОСР	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	6.2	3.1					2					
	SP0B	3-#1, 1-#1, 1-#8	100	3				7.1	3.4			4	3	100	3-#1, 1-#1, 1-#8	SP2	
					5					5.1	2.7	6					
					7	5.5	8.7					8					
	SP4	3-#1, 1-#1, 1-#8	100	3				6.3	8.5		7.0	10	3	100	3-#1, 1-#1, 1-#8	SP6	
			-		11	7.0				5.5	7.3	12 14	1			SPACE	
	SP8	3-#4/0, 1-#4/0, 1-#3	100	3	13 15	7.0		5.9				16	1			SPACE	
	31 0	3 -11-1 /0, 1 -11-1 /0, 1 -11/ 3	100		17			0.9	-	7.3		18	1			SPACE	
	SPACE		 	1	19		-			1.0		20	1			SPACE	
	SPACE		-	1	21			-	_			22	1	_		SPACE	
	SPACE		-	1	23					-		24	1	_		SPACE	
					25	0.0	0.0					26					
	SPARE		100	3				0.0	0.0			28	3	100		SPARE	
					29					0.0	0.0	30					
							kVA		2 kVA		kVA						
							8 A		4 A		3 A						
	CLASSIFICATION	CONNECTED LO	AD	DE		FACT	OR	ESTI		DEMA	ND					EL TOTALS	
EQUIP		8500 VA			100	.00%			8500							TOTAL CONNECTED LOAD: 8974	0 VA
HVAC		2000 VA			100	.00%			2000	VA					TC	DTAL ESTIMATED DEMAND: 5512	.0 VA
REC		79240 VA			56.	31%			44620	VA					TOT	AL CONNECTED CURRENT: 249	Ą
															TOTAL ESTIN	MATED DEMAND CURRENT: 153	A
															25	% ADDITIONAL CAPACITY: 38 A	
																TOTAL PANEL CURRENT: 191	Ą

P/	ANEL SCHEDULE KE	ΞΥ
GBD	GLDP	SDDP
LDP0	LDP1	SDP1
SDP2	SDP3	SDP4







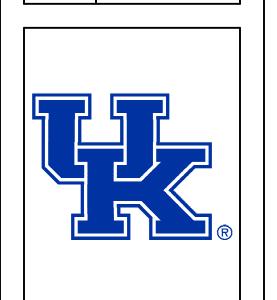


MICHAEL D. RANKIN MD HEAL

EDUCATION BUILDING

UNIVERSITY OF KENTUCKY

1149 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



		ELI	ECTRICA	L
	PROJ	ECT	202170/XK	SM2
	DA ⁻	ΓΕ	05/20/20	24
		R	REVISIONS	
	No.		Description	Date
	1	BP-4 F	FINAL ADDENDUM	07/24/

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS - IN ELECTRONIC OR ANY OTHER FORMAT - IN WHOLE, OR IN PART, FOR ANY PURPOSE OTHER THAN FOR THE PROJECT. THE CLIENT AGREES NOT TO TRANSFER THESE ELECTRONIC FILES TO OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

ELECTRICAL PANEL SCHEDULES -BP4

E-700Q

	PANEL: SDP5 VOLTAGE: 480Y/277V,3P,4W AMPERES: 600 A						IS TYPE SPE UNTING) :				PANE	L IN		IPTING RATING: <eno Location: Elec Supply from: ATS-</eno 		
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	Р	СКТ		A	I	В	(C	СКТ	Р	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
, , , , , , , , , , , , , , , , , , ,	ELEVATOR CONTROLLER	3-#1/0, 1-#1/0, 1-#6	125	3	1 3 5	8.0	9.1	8.0	9.1	8.0	9.1	2 4 6	3	150	3-#3/0, 1-#3/0, 1-#6	ELEVATOR CONTROLLER	
	ELEVATOR CONTROLLER	3-#3/0, 1-#3/0, 1-#6	150	3	7 9 11	9.4	9.4	9.4	9.4	9.4	9.4	8 10 12	3	150	3-#3/0, 1-#3/0, 1-#6	ELEVATOR CONTROLLER	
	ELEVATOR HVAC	3-#12, 1-#12, 1-#12	20	3)	13 15 17	0.3	0.3	0.3	0.3	0.3	0.3	14 16 18	3	20	3-#12, 1-#12, 1-#12	ELEVATOR HVAC	>
	ELEVATOR HVAC	3-#12, 1-#12, 1-#12	20	3	19 21 23	0.3		0.3		0.3		20 22 24					
	SPARE	_	20	3	25 27 29	0.0	0.0	0.0	0.0	0.0	0.0	26 28 30	3	150		SPARE	
							kVA		kVA		kVA						·
OAD C	LASSIFICATION	CONNECTED LO	AD	DE	MAND	FACT	OR		4 A MATED		4 A ND				PANE	L TOTALS	
QUIP		110952 VA			100.	00%			110952	! VA						TOTAL CONNECTED LOAD: 110 TAL ESTIMATED DEMAND: 110	
															TOTA	AL CONNECTED CURRENT: 133 IATED DEMAND CURRENT: 133	Α
															25	% ADDITIONAL CAPACITY: 33 /	
															25	% ADDITIONAL CAPACITY: 33 / TOTAL PANEL CURRENT: 167	

	PANEL: DP1					MAIN	IS TYP	E: MLC)			PANE	L IN	TERRU	PTING RATING: 35k			
	VOLTAGE: 208Y/120V,3P,4W	V					SP	D:							LOCATION: MAII	N ELECT (SOUTH) 018		
	AMPERES: 800 A					MO	UNTIN	G: SUF	RFACE						SUPPLY FROM: SUB	2B		
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	ОСР	Р	СКТ		A	ı	В	(;	СКТ	Р	ОСР	HOT, NEUT, GND	CIRCUIT DESCRIPTIO	N NOT	ES
					1	13.1	9.0					2						
	RP0A	3-#300, 1-#300, 1-#4	225	3	3			11.4	8.2			4	3	225	3-#300, 1-#300, 1-#4	RP0B		
					5					11.0	10.4	6						
					7	7.2	6.1					8						
	PP0A	3-#1, 1-#1, 1-#8	100	3				6.3	8.3			10	3	225	3-#300, 1-#300, 1-#4	MP0		
					11					5.8	9.0	12						
	SPACE			1	13							14	1	-		SPACE		_
	SPACE			1	15			L				16	1	-		SPACE		_
	SPACE			1	17							18	1	-	-	SPACE		_
	SPACE			1	19							20	1	-	-	SPACE		_
	SPACE			1	21			L				22	1	-		SPACE		_
	SPACE			1	23							24	1	-		SPACE		_
					25	0.0	0.0					26						
	SPARE		100	3				0.0	0.0	0.0	0.0	28 30	3	225		SPARE		
					29	25.4	13/4	24.2	13/4	_		30						_
							kVA		kVA	36.2		_						
							6 A		6 A	303								_
	CLASSIFICATION	CONNECTED LOA	4D	DE		FACT	OR	ESTI		DEMA	ND					L TOTALS		_
EQUIP		12350 VA				.00%			12350							TOTAL CONNECTED LOAD:		
HVAC		24892 VA			82.	05%			20424	VA					TC	OTAL ESTIMATED DEMAND:	81768 VA	
LTNG		19374 VA			100	.00%			19374	VA					TOT	AL CONNECTED CURRENT:	294 A	
REC		49240 VA			60.	15%			29620	VA					TOTAL ESTIN	MATED DEMAND CURRENT:	227 A	
															25	% ADDITIONAL CAPACITY:	57 A	
																TOTAL PANEL CURRENT:	284 A	_

\	PANEL: DP2 VOLTAGE: 208Y/120V,3P,4W					WAIN	IS TYPE SPI		,			PANE	LIN	IEKKU	JPTING RATING: 65k	RKPLACE PENTHOUSE 832	
	AMPERES: 400 A		_			МО	UNTINO		REACE					_	SUPPLY FROM: SUE		_
NOTES		HOT, NEUT, GND	ОСР	P	СКТ		A		B			ÇKT	Ψ _D	OCP		VIRCUIT DESCRIPTIO)NI
_	AHU-SP-4 CNTRL PNL	1-#12, 1-#12, 1-#12	20	1)1	0.5			5	,		2	1	20	1-#12, 1-#12, 1-#12	TRAP PRIMER RM 832	/11
	AHU-SP-1 CONTROL PANEL	1-#12, 1-#12, 1-#12	20	1	3	0.0	0.5	0.5	1.0		(4	1	20	1-#12, 1-#12, 1-#12	HFC-200	
	AHU-SP-2 CONTROL PNL	1-#12, 1-#12, 1-#12	20	1	5			0.0	1.0	0.5	1.7	6					
	HFC-200	1-#10, 1-#10, 1-#10	20	1	7	1.0	1.7			0.0		8	2	25	2-#10, 1-#10, 1-#10	FPP-7,8	
		, ,			9	1.0		1.7	1.0			10	1	20	1-#12, 1-#12, 1-#12	HFC-200	
	FPP-5,6	2-#10, 1-#10, 1-#10	25	2	1					1.7	0.5	12	1	20	1-#12, 1-#12, 1-#12	AHU-SP-3 CONTROL PNL	
\top	SPARE		20 ^	1	13	0.0	0.0					14	1	201	~	SPARA	
	SPARE		20	1	15			0.0	0.0			16	+	20		SPARE	
	SPARE		20	1	17					0.0	0.0	18	1	20	-	SPARE	
	SPARE		20	1	19	0.0	0.0					20	1	20		SPARE	
	SPARE		20	1	21			0.0	0.0			22	1	20		SPARE	
	SPARE		20	1	23					0.0	0.0	24	1	20	-	SPARE	
	SPARE		20	1	25	0.0	0.0					26	1	20	-	SPARE	
	SPARE		20	1	27			0.0	0.0			28	1	20	-	SPARE	
	SPARE		20	1	29					0.0	0.0	30	1	20	-	SPARE	
	SPARE		20	1	31	0.0	0.0					32	1	20	-	SPARE	
	SPARE		20	1	33			0.0	0.0			34	1	20	-	SPARE	
	SPARE		20	1	35					0.0	0.0	36	1	20	_	SPARE	
					37	0.0	0.0					38	1	20	-	SPARE	
	SPARE		100	3	39			0.0	0.0			40	2	50		SPARE	
					41					0.0	0.0	42		30		SPANE	
					İ	3.7	kVA	4.2	kVA	4.3	kVA						
						31	1 A	35	5 A	37	7 A						
LOAD C	CLASSIFICATION	CONNECTED LO	AD	DEN	//AND	FACT	OR	ESTI	MATED	DEMA	ND				PANI	EL TOTALS	
EQUIP		2500 VA			100.	.00%			2500	VA						TOTAL CONNECTED LOAD:	12156
HVAC		9656 VA			100.	.00%			9656	VA					TO	OTAL ESTIMATED DEMAND:	12156
																AL CONNECTED CURRENT:	
			-+				_									MATED DEMAND CURRENT:	
			-+				-									% ADDITIONAL CAPACITY:	
			-+		—		+								2,5	TOTAL PANEL CURRENT:	
	: WHERE NOT LISTED, WIRE AND															TOTAL PANEL CURRENT:	42 A

	PANEL: DP3					MAIN	IS TYP	E: MLC)			PANE	L IN	ΓERRU	PTING RATING: 35k			
	VOLTAGE : 208Y/120V,3P,4W						SP									DEMIC PENTHOUSE 1000		ı
	AMPERES: 800 A					MOI		G: SUR	FACE						SUPPLY FROM: SUB			1
NOTES		HOT, NEUT, GND	ОСР	Ь	СКТ		4	J. 001				СКТ	ь	ОСР	HOT, NEUT, GND	CIRCUIT DESCRIPTIO	N I	NOTI
IOILS	CIRCUIT DESCRIPTION	HOT, NEOT, GND	OCF	Г	1	16.4	7.7			,		2	Г	ОСР	HOT, NEOT, GND	CIRCUIT DESCRIPTIO	N	101
	RP9A	3-#300, 1-#300, 1-#4	225	3	3	10.4	1.1	15.2	6.8			4	3	225	3-#300, 1-#300, 1-#4	RP9B		1
	IN 9A	3-#300, 1-#300, 1-#4	223	٦	5			13.2	0.0	14.3	3.0	6	"	223	3-#300, 1-#300, 1-#4	IN 3D	\ _/	1
					7	15.4	6.7			17.0	5.0	8			YYY	 	Υ ,	
	RP9C	3-#300, 1-#300, 1-#4	225	3	9	10.7	0.1	11.5	7.0			10	3	100	3-#1. 1-#1. 1-#8	PP9A		
	14 30	0 #000, 1 #000, 1 #14	220		11			11.0	7.0	12.5	6.1	127		100	0 #1, 1 #1, 1 #0	11 3/1		
					13	9.5				12.0	0.1	14	1			SPACE		
	MPP	3-#300, 1-#300, 1-#4	225	3	15	0.0		18.3				16	1			SPACE		
					17			1010		7.0		18	1			SPACE		
	SPACE			1	19		-					20	1			SPACE		
	SPACE		-	1	21			-				22	1	~	٨ - ٨	SPACE ~	ス	_
	SPACE		-	1	23							24	7	<u></u>		SPACE		
	SPACE		-	1	25							26	1	-		SPACE		
	SPACE			1	27							28	1			SPACE		
	SPACE			1	29					-		30	1			SPACE		
	SPACE			1	31	1	-					32	1	-		SPACE		
	SPACE			1	33				-			34	1	-		SPACE		
	SPACE		-	1	35							36	1			SPACE		
					37	0.0	0.0					38						
	SPARE		225	3	39			0.0	0.0			40	3	100		SPARE		
					41					0.0	0.0	42						
						55.7	kVA	58.8	kVA	42.8	kVA							
						48	1 A	50	6 A	35	7 A							
OAD (CLASSIFICATION	CONNECTED LO	AD	DE	MAND	FACT	OR	ESTIN	//ATED	DEMA	ND				PANE	L TOTALS		
QUIP		66196 VA			100.	00%			66196	VA						TOTAL CONNECTED LOAD:	157348	VA
IVAC		200 VA			100.	00%			200 \	/A					TC	TAL ESTIMATED DEMAND:	126728	VA
TNG		19712 VA			100.	00%			19712	VA					TOT	AL CONNECTED CURRENT:	437 A	
EC		71240 VA			57.0				40620							MATED DEMAND CURRENT:		
		11270 VA			51.0	<i>J</i>			70020	411						% ADDITIONAL CAPACITY:		
							-								20	TOTAL PANEL CURRENT:		

AHU-B-AHU-1-	MPERES: 600 A CIRCUIT DESCRIPTION -3 SUPPLY -5 SUPPLY -5 SUPPLY	3-#1/0, 1-#1/0, 1-#6 3-#8, 1-#8, 1-#10 3-#10, 1-#10, 1-#10	90 40 40	3 3	1 3 5 7 9 11 13	7.8	13.3	21.3 7.8		21.3		2 4	P 3	ØCP 50	SUPPLY FROM: SUB HOT, MEUT, GND 3-#6, 1-#6, 1-#10	CIRCUIT DESCRIPTION AHU-B-3 RETURN	NOTE
AHU-B- AHU-1- AHU-B-	-3 SUPPLY -2 SUPPLY -B SUPPLY	3-#1/0, 1-#1/0, 1-#6 3-#8, 1-#8, 1-#10 3-#8, 1-#8, 1-#10	90	3	1 3 5 7 9 11 13	7.8	13.3		13.3			2 4	1		Y '' Y	Y	5
AHU-1-	-B SUPPLY	3-#8, 1-#8, 1-#10		ノ	7 9 11 13		4.2	7.8		21.3	122			•••	,		1 4
AHU-1-	-B SUPPLY	3-#8, 1-#8, 1-#10		ノ	11 13			1 7.0	4.2		13.3	6 87 10	3	25	3-#10, 1-#10, 1-#10	AHU-B-2 RETURN	
AHU-B-			40	3		8.9	4.2		7.2	7.8	4.2	12	Ĭ		3#10, 1#10, 1#10	A 10-52 NETOWN	
	-5 SUPPLY	3-#10, 1-#10, 1-#10			15 17			8.9	4.2	8.9	4.2	16 18	3	20	3-#12, 1-#12, 1-#12	AHU-B-1 RETURN	\ <u>\^1\</u>
DWBP-			30	3	19 21 23	6.1	4.2	6.1	4.2	6.1	4.2	20 22 24	ر ر3	25	3-#10, 1-#10, 1-#10	AHU-B-5 RETURN	>
	-1	3-#4, 1-#4, 1-#10	60	3	25 27	13.0		13.0				26 28	1	<u>ر</u> 	-	SPACE SPACE	
SPACE				1	29 31					13.0		30 32	1			SPACE SPACE	_
SPACE				1	33				-			34	1	-	-	SPACE	
SPACE		-	-	1	35							36	1	-		SPACE	
SPARE	≣	-	60	3	37 39 41	0.0	0.0	0.0	0.0	0.0	0.0	38 40 42	3	20	-	SPARE	
					1 71	82.8	kVA 9 A	82.8		82.8 1	kVA	72					
OAD CLASSII	FICATION	CONNECTED LOA	AD	DE	MAND	FACT	OR	ESTIM	IATED	DEMAN					PANE	EL TOTALS	
HVAC		248538 VA			71.:	21%			176977	VA						TOTAL CONNECTED LOAD: 24853	
																DTAL ESTIMATED DEMAND: 17697	
																AL CONNECTED CURRENT: 299 A MATED DEMAND CURRENT: 213 A	
																% ADDITIONAL CAPACITY: 53 A	
																TOTAL PANEL CURRENT: 266 A	

	VOLTAGE: 480Y/277V,3P,4W AMPERES: 600 A					МО	SPI): 3: Sur	EACE						LOCATION: PUN SUPPLY FROM: SUB	MP/ STEAM LOOP VAULT 027	
NOTES		HOT, NEUT, GND	ОСР	Р	СКТ		A	J. 30K			 ;	СКТ	P		HOT, NEUT, GND	$\overline{}$	NOTE
					1	18.0	3.6					2	1		Y	Y	11017
	CHWP-1A	3-#2, 1-#2, 1-#8	90	3	5			18.0	3.6	18.0	3.6	6	3	20	3-#12, 1-#12, 1-#12	AHU-B-4 SUPPLY	
	OLINATO 40	0 110 4 110 4 110	00		7	18.0	2.1	40.0	0.4			8		45	0 1140 4 1140 4 1140	DOD 4	
	CHWP-1C	3-#2, 1-#2, 1-#8	90	3	9			18.0	2.1	18.0	2.1	10	-3	15	3-#12, 1-#12, 1-#12	RCP-1	
					13	18.0	0.4					14					
	CHWP-1B	3-#2, 1-#2, 1-#8	90	3	15 17			18.0	0.4	18.0	0.4	167	3	15	3-#12, 1-#12, 1-#12	EF-3	
	Υ	ΥΥ		+	19	1.3						20	1	-		SPACE	
	CHWP-2A	3-#12, 1-#12, 1-#12	15	3	21			1.3		1.3		22	1			SPACE SPACE	
7					25	1.3	1.3			1.3		24	+			SPACE	
	CHWP-2B	3-#6, 1-#6, 1-#10	50	3	27			1.3	1.3	1.0	4.0	28	3	15	3-#12, 1-#12, 1-#12	HWP-2A	
>					29 81	1.3				1.3	1.3	30	1	_		SPACE	
	HWP-2B	3-#12, 1-#12, 1-#12	15	3_				1.3				34	1	-		SPACE	
				7	35 37	0.0	0.0			1.3		36 38	1		√ 	SPACE	
	SPARE		20	3	_	0.0	0.0	0.0	0.0			40	3	90		SPARE	
					41					0.0	0.0	42					
							kVA 6 A	65.4 236		65.4		1					
LOAD	CLASSIFICATION	CONNECTED LO	AD	DE	MANE	FACT				DEMA					PANE	EL TOTALS	
HVAC		196307 VA				53%			140415							TOTAL CONNECTED LOAD: 1	96307 VA
															TC	TAL ESTIMATED DEMAND: 1	40415 VA
																AL CONNECTED CURRENT: 2	
\vdash																MATED DEMAND CURRENT: 1	
															25	% ADDITIONAL CAPACITY: 4 TOTAL PANEL CURRENT: 2	
NOTES	S: WHERE NOT LISTED, WIRE AND	 CONDUIT SHALL BE F	RE MIN	IIMU	M PFF	SPEC	IFICATI	ONS S	SPARE	BREAK	ERS T	O BE 2	η Δ /2	1P		TOTAL PANEL CONNENT. 2	117
NOTES	5. WHERE NOT LISTED, WIRE AND	CONDOIT STALL BL L	DE IVIIIN	IIIVIO	IVI F L	V OF LO	II IOATI	ONO. C	OF AINL	. DINLAN	LINO I	O DL Z	.0.70	IF.			
1																	

	PANEL: HP8					MAIN	IS TYPI	E: MLC)			PANE	L IN	TERRU	PTING RATING: 65k		
	VOLTAGE : 480Y/277V,3P,4W						SPI) :							LOCATION: WO	RKPLACE PENTHOUSE 832	
	AMPERES: 1200 A					MO	UNTING	S: SUR	FACE						SUPPLY FROM: SUE	31B	
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	Р	CKT	4	A	E	3	(CKT	Р	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTE
	AHU-SP-1-SUPPLY	3-#1/0, 1-#1/0, 1-#6	90	3	3	21.3	21.3	21.3	21.3			2	3	90	3-#1/0, 1-#1/0, 1-#6	AHU-SP-4-SUPPLY	
		, ,			5					21.3	21.3	6			, ,		
					7	13.3	13.3					8					
	AHU-SP-1-RETURN	3-#6, 1-#6, 1-#10	50	3	9			13.3	13.3	40.0	40.0	10	3	50	3-#6, 1-#6, 1-#10	AHU-SP-4-RETURN	
					11	21.3	21.3			13.3	13.3	12 14					
	AHU-SP-2-SUPPLY	3-#1/0, 1-#1/0, 1-#6	90	3	13 15	21.3	21.3	21.3	21.3			16	3	90	3-#1/0, 1-#1/0, 1-#6	AHU-SP-3-SF SUPPLY	
	7410 01 2 0011 21	0 11 110, 1 11 110, 1 110			17			21.0	21.0	21.3	21.3	18		00	0 11 110, 1 11 110, 1 110	7410 01 0 01 001 121	
					19	13.3	9.1					20					
	AHU-SP-2-RETURN	3-#6, 1-#6, 1-#10	50	3	21			13.3	9.1			22	3	150	3-#3/0, 1-#3/0, 1-#6	ELEVATOR CONTROLLER (EL-K)	
					23					13.3	9.1	24					
	ALULI OD SPERETURAL	276 1 40 1 410		2	25	13.3	0.3	12.2	0.2			26	2	20	1 410 1 410 1 410	FL F.VATOR DVA C	
/	AHU-SP 3-RF RETURN	3-#6, 1-#6, 1-#10	\\ \frac{50}{}	3	27	\sim	\rightarrow	13.3	0.3	13.3	0.3	28 30	3	20	3-#12, 1-#12, 1-#12	ELEVATOR TIVAL	
	SPACE		-	1	31		10.0					32					
	SPACE			1	33				10.0			34	3	50	3-#6, 1-#6, 1-#10	AUTOCLAVE RM 818B	
	SPACE			1	35						10.0	36					
	SPARE		20_	3	37	0.0	0.0	0.0	0.0			38 40	3	80		SPARE	~
					41					0.0	0.0	42					
						157.	9 kVA	157.9	kVA	157.9	kVA						
						57	0 A	57	0 A	570) A						

SPARE		20 3	39			0.0	0.0		\sim	40 3	3 80	\downarrow			\nearrow	SPARE					\nearrow
			41					0.0	0.0	42											
				157.9	kVA	157.9	kVA	157.9	kVA												
				570	Α	570) A	570) A												
LOAD CLASSIFICATION	CONNECTED LOAD) DEI	MAND	FACTO	R	ESTIM	IATED	DEMAN	ND					P	ANEL	. TOTAL	_S				
EQUIP	98262 VA			.00%			98262	VA							Т	OTAL C	ONNE	CTED L	OAD : 4	73603	VΑ
HVAC	375341 VA		70.	80%			265738	VA							TO	TAL EST	ГІМАТЕ	D DEN	MAND: 3	64001	VΑ
	375341 VA													1	ΓΟΤΑ	L CONN	NECTE	D CURF	RENT: 5	70 A	
													T	OTAL E	STIM	ATED D	EMANI	D CURF	RENT: 4	38 A	
															25 °	% ADDI1	TIONAL	_ CAPA	CITY: 1	09 A	
																TOTAL	PANE	L CURF	RENT: 5	47 A	

	PANEL: HP9					MAIN	-	E: MLC)			PANE	L IN	TERRU	PTING RATING: 65K		
	VOLTAGE : 480Y/277V,3P,4W						SP								LOCATION: ELE	C 902	
	AMPERES: 800 A					MO	UNTIN	G: SUR	RFACE						SUPPLY FROM: SUE	81B	
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	Р	СКТ		Α	E	3	(C	СКТ	Р	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTE
					1	9.4	9.4					2					
	ELEVATOR CONTROLLER	3-#3/0, 1-#3/0, 1-#6	150	3	3			9.4	9.4			4	3	150	3-#3/0, 1-#3/0, 1-#6	ELEVATOR CONTROLLER	
					5					9.4	9.4	6					
					7	0.3	0.3					8					
	ELEVATOR HVAC	3-#12, 1-#12, 1-#12	20	3	9			0.3	0.3			10	3	20	3-#12, 1-#12, 1-#12	ELEVATOR HVAC	
					11					0.3	0.3	12					
					13	9.4	9.4					14					
	ELEVATOR CONTROLLER	3-#3/0, 1-#3/0, 1-#6	150	3	15			9.4	9.4			16	3	150	3-#3/0, 1-#3/0, 1-#6	ELEVATOR CONTROLLER	
					17					9.4	9.4	18					
					19	0.3	0.3					20					
	ELEVATOR HVAC	3-#12, 1-#12, 1-#12	20	3	21			0.3	0.3			22	3	20	3-#12, 1-#12, 1-#12	ELEVATOR HVAC	
				<u> </u>	23					0.3	0.3	24					
	SPACE		-	1	25		-					26	1	-	-	SPACE	
	SPACE		-	1	27			-				28	1	-	-	SPACE	
	SPACE		-	1	29							30	1	-	-	SPACE	
	SPACE		-	1	31		-					32	1	-		SPACE	
	SPACE			1	33			-				34	1		-	SPACE	
	SPACE			1	35	0.0	0.0					36	1		-	SPACE	
	ODADE		450		37	0.0	0.0	0.0	0.0			38		00		ODADE	
	SPARE		150	3	39			0.0	0.0	0.0	0.0	40	3	20	_	SPARE	
					41	20.0) I) / A	20.0	13/4	_		42					
) kVA	39.0			kVA						
		T					1 A		1 A	14							
	LASSIFICATION	CONNECTED LO	AD	DE		FACT	OR			DEMA	ND					EL TOTALS	
EQUIP		116934 VA			100	.00%			116934	1 VA						TOTAL CONNECTED LOAD: 1169	34 VA
															TC	DTAL ESTIMATED DEMAND : 1169	34 VA
															TOT	AL CONNECTED CURRENT: 141 A	4
															TOTAL ESTIN	MATED DEMAND CURRENT: 141 A	4
															25	% ADDITIONAL CAPACITY: 35 A	
																TOTAL PANEL CURRENT: 176 A	1

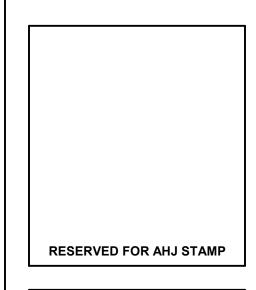
١	PAN	IELBOARD AND V	WIRING SC	HEI	DU	ILE	•										
	\	PANEL: HVPP					MAIN	S TYPE	: MLO)			PANEL I	NTER	RUPTING RATING: 65k		
	\	VOLTAGE : 480Y/277V,3P,4W						SPE):						LOCATION: ACA	ADEMIC PENTHOUSE 1000	
	\	AMPERES: 1200 A					MOI	JNTING	: SUR	FACE					SUPPLY FROM: SUI	B1A	
	NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	ОСР	Р	СКТ	-	4	Е	3		;	CKT	00	P HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOT
			- , - , -			1	3.9	3.0					2		Y Y Y	Y	1
	\	AC-1	3-#10, 1-#10, 1-#10	25	3	3			3.9	3.0			4	20	3-#12, 1-#12, 1-#12	RAWP-1A	14
						5					3.9	3.0	6	ı	, , , , , , , , , , , , , , , , , , ,	A A	
		Y	Υ		5	7	3.0	31.3					8				\sim
	\	RAWP-1B	3-#12, 1-#12, 1-#12	20	3	9			3.0	31.3			10 3	12	3-#3/0, 1-#3/0, 1-#4	AHU-NP-1 SUPPLY	
	\	A A	λ		\angle	11					3.0	31.3	12				
						13	24.1	31.3					14				
		AHU-NP-1 RETURN	3-#1, 1-#1, 1-#8	100	3	15			24.1	31.3			16 3	12	3-#3/0, 1-#3/0, 1-#4	AHU-NP-2 SUPPLY	
						17	04.4	04.0			24.1	31.3	18				
		ALILLAID O DETLIDAL	2 44 4 44 4 40	400		19	24.1	31.3	04.4	24.2			20		. 2 #2/0 4 #2/0 4 #4	ALULAD 2 OLIDDIA	
		AHU-NP-2 RETURN	3-#1, 1-#1, 1-#8	100	3	21			24.1	31.3	24.1	31.3	22 3	12	3-#3/0, 1-#3/0, 1-#4	AHU-NP-3 SUPPLY	
						23 25	24.1	7.5			24.1	31.3	24 26				
		AHU-NP-3 RETURN	3-#1, 1-#1, 1-#8	100	3	27	24.1	7.5	24.1	7.5			28 3	60	3-#4, 1-#4, 1-#10	EF-2	
		AIIO-NI -3 NETONN	3 -11 1, 1-111, 1-110	100		29			24.1	7.5	24.1	7.5	30	00	3 -11-1 , 1 -11-1 , 1-11-10	Li -2	
						31	8.0	2.1			27.1	7.0	32				
		ELEVATOR CONTROLLER	3-#1/0, 1-#1/0, 1-#6	125	3	33	0.0		8.0	2.1			34 3	15	3-#12, 1-#12, 1-#12	EF-1	
			,			35					8.0	2.1	36		, , , , ,		
						37	0.3	-					38 1	_		SPACE	
		ELEVATOR HVAC	3-#12, 1-#12, 1-#12	20	3	39			0.3				40 1	-		SPACE	
						41					0.3		42 1		-	SPACE	
		SPACE			1	43							44 1	-	-	SPACE	
		SPACE	-		1	45							46 1	-		SPACE	
		SPACE		-	1	47							48 1	_	-	SPACE	
		ODADE				49	0.0	0.0	0.0	0.0			50			ODADE	
		SPARE	-	20	3	51			0.0	0.0	0.0	0.0	52 3	100	-	SPARE	
						53	104.0	1.1.7.4	104.0	14/4	0.0	0.0	54				
							194.0		194.0		194.0						
	1015	N ACCIFICATION	00111150755	4 D			700			0 A	700					F: TOTALO	
		LASSIFICATION	CONNECTED LO	Aυ	DΕΙ		FACT	JK			DEMAI	עוי				EL TOTALS	0.40.1/4
	EQUIP		83708 VA				00%			83708						TOTAL CONNECTED LOAD: 581	
	HVAC		498240 VA			70.6	50%			351768	3 VA					OTAL ESTIMATED DEMAND: 435	
																TAL CONNECTED CURRENT: 700	
																MATED DEMAND CURRENT: 524	
															25	5 % ADDITIONAL CAPACITY: 131	Α
																TOTAL PANEL CURRENT: 655	5 A

				TOTAL COTTON TO DEMONITO CONTROL	02171
				25 % ADDITIONAL CAPACITY:	131 A
				TOTAL PANEL CURRENT:	655 A
HERE NOT LISTED, WIRE AND C	ONDUIT SHALL BE BE MIN	IIMUM PER SPECIFICA	ATIONS. SPARE BREAKERS	TO BE 20A/1P.	

P/	ANEL SCHEDULE KE	EY
SDP5	DP1	DP2
DP3	HP0A	HP0B
HP8	HP9	HVPP









MICHAEL D. RANKIN MD HEAL
EDUCATION BUILDING



ELI	ECTRICAL
PROJECT	202170/XKSM21
DATE	05/20/2024
R	REVISIONS

	REVISIONS	
No.	Description	Date
1	BP-4 FINAL ADDENDUM	07/24/24
E	RA ARCHITECTS HAS RETAINE ELECTRONIC VERSION OF THE WINGS. THE CLIENT AGREES	ESE

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS - IN ELECTRONIC OR ANY OTHER FORMAT - IN WHOLE, OR IN PART, FOR ANY PURPOSE OTHER THAN FOR THE PROJECT. THE CLIENT AGREES NOT TO TRANSFER THESE ELECTRONIC FILES TO OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

ELECTRICAL PANEL SCHEDULES -BP4

E-701Q

PANEL: NDP0S VOLTAGE: 208Y/120V,3P,4	W				MAIN	S TYPE	0)			PANE	L IN	TERRU	PTING RATING: 35k LOCATION: ELE	C 058	
AMPERES: 600 A		1	_			UNTING			1 .			_		SUPPLY FROM: SUE	1	1
NOTES CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT		4	E	3	(CKT	Р	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTE
DD00	0 11000 4 11000 4 114			1	10.8	3.3	0.0	0.5			2		400	0 "4 4 "4 4 "0	200	
RP0C	3-#300, 1-#300, 1-#4	225	3	3			9.3	3.5	44.0	4.0	4	3	100	3-#1, 1-#1, 1-#8	PP0B	
ODAGE			4	5					11.2	1.9	6	4			SPACE	
SPACE			1	7							8	1			SPACE	
SPACE			1	9							10	1		-	SPACE	
SPACE SPACE			1								12	⊢÷-			SPACE	
*****			1	13							14	1	-			
SPACE		-	1	15				-			16	1	-		SPACE	
SPACE		-	1	17							18	1			SPACE	
SPACE		-	1	19							20	1	-	 -	SPACE	
SPACE		-	1	21				-			22	1	-		SPACE	
SPACE			1	23							24	1	-		SPACE	
				25	0.0	0.0					26					
SPARE		20	3	27			0.0	0.0			28	3	100		SPARE	
				29					0.0	0.0	30					
					14.1	kVA	12.7	kVA	13.1	kVA						
					11	8 A	106	6 A	110) A						
LOAD CLASSIFICATION	CONNECTED LO	AD	DE	MAND	FACT	OR	ESTIN	//ATED	DEMA	ND				PANE	L TOTALS	
EQUIP	13800 VA			100	.00%			13800	VA						TOTAL CONNECTED LOAD: 3997	70 VA
LTNG	8750 VA				.00%			8750							DTAL ESTIMATED DEMAND: 3626	
REC	17420 VA	\rightarrow			70%			13710							AL CONNECTED CURRENT: 111	
NLO	11420 VA			10.	1 U /0			13110	VA						MATED DEMAND CURRENT: 101	

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

	PANEL: NDP1N					MAIN	S TYP	E: MLC)			PANE	L IN	TERRU	PTING RATING: 35k		/
	VOLTAGE : 208Y/120V,3P,4W						SPI	D:							LOCATION: ELE	C 102	
	AMPERES: 600 A					MO	UNTING	G: SUR	RFACE						SUPPLY FROM: SUB	32A	
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	ОСР	Р	СКТ	/	4	E	3	(;	СКТ	Р	ОСР	HOT, NEUT, GND	CIRCUIT DESCRIPTIO	N NC
					1	11.1	12.0					2					
	RP1A	3-#300, 1-#300, 1-#4	225	3	3			10.3	11.7			4	3	225	3-#300, 1-#300, 1-#4	RP1B	
					5					11.6	9.4	6		\checkmark			
					7	10.9	6.1					8	,		Y	Y	5
	RP1C	3-#300, 1-#300, 1-#4	225	3	9			9.0	8.0			10	3	100	3-#1, 1-#1, 1-#8	PP1A	
					11					10.8	6.1	12					
	SPACE			1	13							14	X			SPACE	\mathcal{L}
	SPACE	-		1	15							16	1	-		SPACE	
	SPACE			1	17							18	1		-	SPACE	
	SPACE			1	19							20	1	-		SPACE	
	SPACE			1	21							22	1	-		SPACE	
	SPACE			1	23							24	1	-		SPACE	
					25	0.0	0.0					26					
	SPARE		225	3	27			0.0	0.0			28	3	100		SPARE	
					29					0.0	0.0	30					
							kVA	39.0		37.9							
						33			7 A	31							
LOAD C	CLASSIFICATION	CONNECTED LO	AD	DE	MAND	FACT	OR	ESTIN	/IATED	DEMA	ND					EL TOTALS	
EQUIP		30480 VA			100	.00%			30480	VA					•	TOTAL CONNECTED LOAD:	117046 V
LTNG		20206 VA			100	.00%			20206	VA					TC	TAL ESTIMATED DEMAND:	88866 VA
REC		66360 VA			57.	53%			38180	VA					TOTA	AL CONNECTED CURRENT:	325 A
															TOTAL ESTIN	MATED DEMAND CURRENT:	247 A
																% ADDITIONAL CAPACITY:	
																TOTAL PANEL CURRENT:	
NOTES	: WHERE NOT LISTED, WIRE AND	OONDUIT OUALL DE S	VE V 415 11	N 41 18	4 DEC	0050	IFICAT	IONO 1		DDEAL	/FDO T	O DE /	20 A /	4D		TOTAL PARLE CONNENT.	000 A

	PANEL: NDP1S					MAIN	IS TYP	E: MLC)			PANEI	L IN	TERRU	PTING RATING: 35k		
	VOLTAGE : 208Y/120V,3P,4W						SPI	D:							LOCATION: ELE	C 158	
	AMPERES: 600 A					MO	UNTIN	G: SUR	FACE						SUPPLY FROM: SUB	3A	
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	ОСР	Р	СКТ		A	E	3	(C	СКТ	Р	ОСР	HOT, NEUT, GND	CIRCUIT DESCRIPTION	N NC
					1	8.5	4.1					2					
R	RP1D	3-#300, 1-#300, 1-#4	225	3	3			10.6	2.3			4	3	100	3-#1, 1-#1, 1-#8	PP1B	
					5					5.7	1.0	6					
					7	2.2	-					8	1	-		SPACE	
N	IP1	3-#1, 1-#1, 1-#8	100	3	9			2.6				10	1	-		SPACE	
				ļ.,	11					3.3		12	1	-		SPACE	
	PACE			1	13		-					14	1			SPACE	
	PACE			1	15			-				16	1		-	SPACE	
	PACE			1	17							18	1		-	SPACE	
	PACE			1	19		-					20	1		-	SPACE	
	PACE			1	21							22	1	-		SPACE	
S	PACE			1	23							24	1	-		SPACE	
					25	0.0	0.0					26					
S	PARE		100	3	27			0.0	0.0			28	3	20	-	SPARE	
					29					0.0	0.0	30					
							kVA	15.4		9.9		_					
							9 A	13			3 A						
OAD CL	ASSIFICATION	CONNECTED LO	AD	DE	MAND	FACT	OR	ESTIN	MATED	DEMA	ND					L TOTALS	_
QUIP		10420 VA			100	.00%			10420	VA					•	TOTAL CONNECTED LOAD:	40065 V
HVAC		2850 VA			100	.00%			2850 \	/A					TC	TAL ESTIMATED DEMAND:	35365 VA
TNG		7395 VA			100	.00%			7395 \	/A					TOTA	AL CONNECTED CURRENT:	111 A
REC		19400 VA				77%			14700							MATED DEMAND CURRENT:	
		10.00 171				, ,										% ADDITIONAL CAPACITY:	
															23	TOTAL PANEL CURRENT:	
	WHERE NOT LISTED, WIRE AND															TOTAL PANEL CURRENT:	123 A

	PANEL: NDP2N					MAIN	IS TYPI	E: MLO)			PANEI	L IN	TERRL	JPTING RATING: 35k		
	VOLTAGE : 208Y/120V,3P,4W						SPI	D:							LOCATION: ELE	C 202	
	AMPERES: 600 A					MO	_	G: SUR	FACE						SUPPLY FROM: SUB		
IOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	ОСР	Р	СКТ		4	Е			;	СКТ	Р	ОСР	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NO
		, ,			1	11.3	10.9					2			, ,		
	RP2A	3-#300, 1-#300, 1-#4	225	3	3			8.0	12.0			4	3	225	3-#300, 1-#300, 1-#4	RP2B	
					5					10.1	7.0	6					
					7	9.5	7.1					8					
	RP2C	3-#300, 1-#300, 1-#4	225	3	9			8.1	5.8			10	3	100_	3-#1, 1-#1, 1-#8	MP2	
					11					8.6	7.3	12		<u> </u>	\sim		-
	DD04	0 "4 4 "4 4 "0	400		13	7.2	5.8					14	•	205	0 11000 4 11000 4 114	5505	
	PP2A	3-#1, 1-#1, 1-#8	100	3	15			7.6	5.8	0.0	O	16	3	225	3-#300, 1-#300, 1-#4	RP2F	
	SPACE			1	17 19					8.3	5.8	18	1			SPACE	
	SPACE			1	21							22	- 1		-	SPACE	_
	SPACE			1	23							24	1			SPACE	
	0.7.02			i i	25	0.0						26	1			SPACE	
	SPARE		100	3	27			0.0	-			287	1		-	SPACE	
					29					0.0		30	1	_		SPACE	_
'					•	51.7	kVA	47.3	kVA	47.1	kVA				$\overline{\mathcal{A}}$		
						43	2 A	398	5 A	392	2 A						
OAD C	LASSIFICATION	CONNECTED LO	AD	DE	MAND	FACT	OR	ESTIN	MATED	DEMA	ND				PANE	EL TOTALS	
QUIP		29839 VA			100.	.00%			29839	VA						TOTAL CONNECTED LOAD: 1	46122 VA
TNG		22444 VA			100.	.00%			22444	VA					TC	TAL ESTIMATED DEMAND: 1	06272 VA
lotor		3500 VA			100.	.00%			3500	VA					TOT	AL CONNECTED CURRENT: 4	06 A
ther		638 VA			100.	.00%			638 \	/A					TOTAL ESTIN	MATED DEMAND CURRENT: 2	95 A
EC		89700 VA				57%			49850							% ADDITIONAL CAPACITY: 7	
		33.33 171				, •										TOTAL PANEL CURRENT: 3	

	PANEL: NDP2S					MAIN	NS TYP	E: MLC)			PANE	L IN	TERRU	PTING RATING: 35k		
	VOLTAGE : 208Y/120V,3P,4W						SPI	D:							LOCATION: ELEC	C 258	
	AMPERES: 600 A					МО	UNTIN	G: SUR	RFACE						SUPPLY FROM: SUB	3B	
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	ОСР	Р	СКТ		Α	E	3	(;	СКТ	Р	ОСР	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NO.
					1	2.1	8.1					2					
	PP2B	3-#1, 1-#1, 1-#8	100	3	3			2.8	8.7			4	3	225	3-#300, 1-#300, 1-#4	RP2E	
					5					1.4	10.4	6					
					7	8.1	-					8	1	-	-	SPACE	
	RP2D	3-#300, 1-#300, 1-#4	225	3	9			6.0	-			10	1	-		SPACE	
					11					6.0		12	1	-		SPACE	
	SPACE			1	13							14	1	-		SPACE	
	SPACE			1	15			-				16	1	-	-	SPACE	
	SPACE			1	17							18	1	-	-	SPACE	
	SPACE			1	19							20	1	-	-	SPACE	
	SPACE			1	21							22	1	-	-	SPACE	
	SPACE			1	23							24	1	-	-	SPACE	
					25	0.0	0.0					26					
	SPARE		225	3	27			0.0	0.0			28	3	100		SPARE	
					29					0.0	0.0	30					
						18.4	4 kVA	17.5	kVA	17.8	kVA						
						15	54 A	140	6 A	148	3 A						
LOAD (CLASSIFICATION	CONNECTED LOA	٩D	DE	MAND	FACT	OR	ESTIN	/IATED	DEMAI	ND				PANE	L TOTALS	
EQUIP		1000 VA			100	.00%			1000	۷A					•	TOTAL CONNECTED LOAD: 53	3645 VA
LTNG		6405 VA			100	.00%			6405	VΑ					TO	TAL ESTIMATED DEMAND: 3	5525 VA
REC		46240 VA			60.	81%			28120	VA					TOTA	AL CONNECTED CURRENT: 14	49 A
		102.0				•										MATED DEMAND CURRENT: 99	
			+				+									% ADDITIONAL CAPACITY: 25	
			-								-				23		
	: WHERE NOT LISTED, WIRE AND															TOTAL PANEL CURRENT: 12	<u> </u>

	PANEL: NDP3N VOLTAGE: 208Y/120V,3P,4W					WAIN	IS TYPI SPI)			PANE	L IN	IEKKU	PTING RATING: 35k LOCATION: ELE	∩ 202	
\	AMPERES: 600 A					МО	UNTINO		REACE						SUPPLY FROM: SUB		
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	ОСР	Р	СКТ		A		B		С	СКТ	Р	ОСР	HOT, NEUT, GND	CIRCUIT DESCRIPTION	_
7		,	00.	•	1	10.2						2	<u> </u>		,		_
\	RP3A	3-#300, 1-#300, 1-#4	225	3	3			8.9	11.7			4	3	225	3-#300, 1-#300, 1-#4	RP3B	
	\				5					9.4	11.4	6					
					7	11.6	7.1					8					
	RP3C	3-#300, 1-#300, 1-#4	225	3	9			10.8	5.6			10	3	100	3-#1, 1-#1, 1-#8	PP3A	
	ΥΥΥ	Υ ' Υ '		\mathcal{L}	11					9.7	7.4	12					
	SPACE			1	13							14	1	-		SPACE	
\	SPACE			1	15							16	1	-		SPACE	_
_	SPACE			1	/ 17							18	1	-		SPACE	_
	SPACE	<u> </u>	<u> </u>	1	19		-					20	1	-		SPACE	_
	SPACE	<u></u>		1	21							22	1	-	-	SPACE	_
	SPACE			1	23		0.0					24	1	-		SPACE	_
	ODADE		005		25	0.0	0.0	0.0	0.0			26		400		ODADE	
	SPARE		225	3	27 29			0.0	0.0	0.0	0.0	28 30	3	100	_	SPARE	
					29	13.8	kVA	37.0	kVA) kVA	30					_
							6 A		8 A		7 A						
LOADC	LASSIFICATION	CONNECTED LO	AD	DEI	MAND	FACT			MATED	_					DANE	L TOTALS	_
EQUIP	LASSIFICATION	10050 VA	AD	DEI	100.		UK	ESTI	10050		טאט					ICTALS TOTAL CONNECTED LOAD: 1187	
LTNG		20081 VA			100.				20081							TAL ESTIMATED DEMAND: 8043	
Motor		2000 VA			100.				2000							AL CONNECTED CURRENT: 330 /	
REC		86600 VA			55.7	77%			48300	VA						MATED DEMAND CURRENT: 223	
															25	% ADDITIONAL CAPACITY: 56 A	
																TOTAL PANEL CURRENT: 279	4
NOTES:	WHERE NOT LISTED, WIRE AND O	CONDUIT SHALL BE E	BE MININ	MUN	/ PER	SPEC	IFICAT	IONS.	SPARE	BREA	KERS 1	O BE	20A/	1P.			

	IEL: NDP3S				N	MAINS TYI)			PANEL	. INTER	RUPT	ING RATING: 35k				PANEL: NDP4N				MA
	GE: 208Y/120V,3P,4W					SI MOUNTIN							CII	LOCATION: ELEC				VOLTAGE: 208Y/120V,3P,4V	V			N
	RES: 600 A JIT DESCRIPTION	HOT, NEUT, GND	ОСР	Р		MOUNTIN		B	1 (<u> </u>	СКТ	P O		PPLY FROM: SUB: HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES	NOTES	AMPERES: 600 A CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	РСК	
10120 011101	on become non	HOT, NEOT, OND		+ + '		7.4 6.9					2	. 0	,	HOT, HEOT, OND	Sinceri Becomi Hen	110120	110120	OIRCOIT DECORAL FIGH	HOT, NEOT, OND		1	12.
RP3E		3-#300, 1-#300, 1-#4	225	3	3	7.1	8.6	8.7			4	3 22	25 3	3-#300, 1-#300, 1-#4	RP3F			RP4A	3-#300, 1-#300, 1-#4	225	3 3	_
		, ,			5				7.0	4.3	6			, ,							5	
					7	3.6 9.4					8										7	11.
PP3B		3-#1, 1-#1 <u>, 1-</u> #8	100	3	9		1.6	10.5			10	3 22	25 3	3-#300, 1-#300, 1-#4	RP3D		F	RP4C	3-#300, 1-#300, 1-#4	225	3 9	
	\sim	\sim	~		11				1.3	7.7	12										11	
<u> </u>	'					1.6					14	1 -	-	-	SPACE						13	
MP3		3-#1, 1-#1, 1-#8	100	3	15		2.5		1.0		16 18	1 -		-	SPACE SPACE			PP4A	3-#1, 1-#1, 1-#8	100	3 15	7
SPACE		\ - \		~1	19				1.0		20	1 -			SPACE			SPACE		 	1 19	2
SPACE			<u> </u>	4	21		_				22	-	-		SPACE			SPACE		+	1 21	
SPACE					23						24	1 -			SPACE			SPACE		 	1 23	
						0.0 0.0					26							· · ·			25	
SPARE			225	3	27		0.0	0.0			28	3 10	00	-	SPARE			SPARE	_	225	3 27	,
					29				0.0	0.0	30										29	}
						28.9 kVA	32.0	kVA	21.4	kVA												49
						250 A	27	7 A	178	8 A												
LOAD CLASSIFICA	TION	CONNECTED LO		5=11		ACTOR	FOTU	MATER	DEMA						L TOTALS		101001	ASSIFICATION	CONNECTED LO	4 D T	DEMAN	= 4.4

6100 VA

6519 VA

39830 VA

100.00%

100.00%

57.18%

69660 VA

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

MOTES	AMPERES: 600 A	LIGHT MELIT COST	005	_	01/5			G: SURI				01/7	_		SUPPLY FROM: SUB	•	1
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	Р	CKT			В	3	C	;	СКТ	Р	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTE
					1	12.9	10.3					2					
	RP4A	3-#300, 1-#300, 1-#4	225	3	3			10.9	9.4			4	3	225	3-#300, 1-#300, 1-#4	RP4B	
					5	44.0	0.0			12.3	10.7	6					
	PD40	2 #200 4 #200 4 #4	005	2	7	11.6	6.0	0.4	0.0			8	2	400	0 44 4 44 4 40	MD4	
	RP4C	3-#300, 1-#300, 1-#4	225	3	9			9.4	2.6	9.2	1.5	10 12	3	100	3-#1, 1-#1, 1-#8	MP4	
					13	9.1				9.2	1.5	14	1			SPACE	
	PP4A	3-#1, 1-#1, 1-#8	100	3	15	3.1		8.7				16	1			SPACE	
					17					6.1		18	1	_		SPACE	
	SPACE			1	19							20	1	-		SPACE	
	SPACE			1	21							22	1	-	-	SPACE	
	SPACE			1	23							24	1	-		SPACE	
					25	0.0	0.0					26					
	SPARE		225	3	27			0.0	0.0			28	3	100	-	SPARE	
					29					0.0	0.0	30					
						49.9		41.1		39.7							
		_				41		344		331							
	CLASSIFICATION	CONNECTED LO	AD	DE		FACT	OR			DEMAN	ID					L TOTALS	
EQUIP		25300 VA			100.	.00%			25300	VA						FOTAL CONNECTED LOAD: 13067	
LTNG		23897 VA			100.	.00%			23897	VA					TO	TAL ESTIMATED DEMAND: 95187	7 VA
Motor		500 VA			100.	.00%			500 V	/A					TOTA	AL CONNECTED CURRENT: 363 A	١
REC		80980 VA			56.	17%			45490	VA					TOTAL ESTIN	IATED DEMAND CURRENT: 264 A	١
															25	% ADDITIONAL CAPACITY: 66 A	
																TOTAL PANEL CURRENT: 330 A	١

MAINS TYPE: MLO

PANEL INTERRUPTING RATING: 35k

TOTAL CONNECTED LOAD: 82279 VA

TOTAL ESTIMATED DEMAND: 52449 VA

TOTAL CONNECTED CURRENT: 228 A

25 % ADDITIONAL CAPACITY: 36 A
TOTAL PANEL CURRENT: 182 A

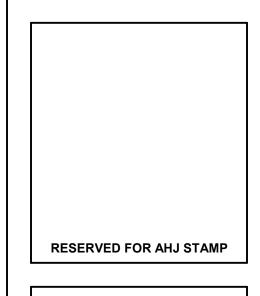
TOTAL ESTIMATED DEMAND CURRENT: 146 A

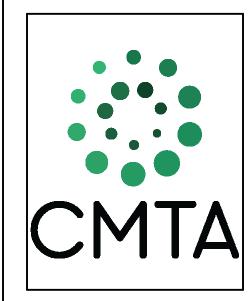
	PANEL: NDP4S					MAIN	IS TYPE	E: MLC)			PANE	L IN	TERRU	PTING RATING: 35k		
	VOLTAGE : 208Y/120V,3P,4W						SPE								LOCATION: ELEC	C 458	
\	VOLTAGE: 208Y/120V,3P,4W AMPERES: 600 A CIRCUIT DESCRIPTION HOT, NEU PACE					MO	UNTING	S: SUF	FACE						SUPPLY FROM: SUB	3B	
OTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	ОСР	Р	CKT	1	A	I	3	C		CKT	Р	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTIO	N NOTES
					1	9.8	2.6					2					
	RP4E	3-#300, 1-#300, 1-#4	225	3	3			9.4	3.2			4	3	100	3-#1, 1-#1, 1-#8	PP4B	
	Y Y	Y			5					9.3	1.2	6					
				1	27		12.4					8					
,				1	9				10.9		40.4	10	3	225	3-#300, 1-#300, 1-#4	RP4D	
		+	-	1	1/1						10.4	12	1			ODAOE	
		<u> </u>		1	13 15							14 16	1	-	-	SPACE SPACE	
				1	17							18	1		-	SPACE	
		-		1	19							20	1			SPACE	
		-		1	21							22	1			SPACE	
		+		1	23							24	1			SPACE	
	OI FIGE			<u>'</u>	25	0.0	0.0					26				OI NOL	
	SPARE		225	3	27	0.0	0.0	0.0	0.0			28	3	100		SPARE	
	S. 7 L .				29			0.0	0.0	0.0	0.0	30				0.7	
				_		24.8	kVA	23.5	kVA	20.8				-			
						21	0 A	19	9 A	17:	3 A						
OAD C	LASSIFICATION	CONNECTED LO	AD	DE	MAND	FACT	OR	ESTI	MATED	DEMA	ND				PANE	L TOTALS	
QUIP		1200 VA			100.	.00%			1200 \	VA					-	TOTAL CONNECTED LOAD:	69121 VA
TNG		6901 VA			100	.00%			6901 \	VA					TO	TAL ESTIMATED DEMAND:	43611 VA
REC		61020 VA			58.	19%			35510	VA					TOTA	AL CONNECTED CURRENT:	192 A
																IATED DEMAND CURRENT:	
																% ADDITIONAL CAPACITY:	
																TOTAL PANEL CURRENT:	
	WHERE NOT LISTED, WIRE AND	00101117011110	.=													TOTAL PANEL CONNENT.	1017

P/	ANEL SCHEDULE KE	ΞΥ
NDP0S	NDP1N	NDP1S
NDP2N	NDP2S	NDP3N
NDP3S	NDP4N	NDP4S









JCATION BUILDING

UNIVERSITY OF KENTUCKY

JERSITY DRIVE, LEXINGTON, KENTUCKY MICHAEL



	ELI	ECTRICA	L
PROJ	IECT	202170/XK	SM21
DA	ΤE	05/20/20	24
	R	REVISIONS	
No.		Description	Date
1	BP-4 F	INAL ADDENDUM	07/24/24

DRAV REUSI OR AN PART, THE PF TRAN OTH CONS FURTI AGAINS WAY I	A ARCHITEGE A ARCHITEGE A ARCHITEGE A COMMENT AND PROPERTY OF THE SERS WITHOUT A COMMENT AND A COMME	C VERSION C CLIENT A CAWINGS - INTERPOSE O COMMAT - II	OF THE GREES IN ELEC N WHOL THER T AGREES CONIC F RIOR WI CT. THE VE ALL ESULTI ESULTI CTRONI T BY AN	ESE NOT TO CTRONIC LE, OR IN HAN FOR S NOT TO ILES TO RITTEN E CLIENT CLAIMS IG IN ANY HANGES C FILES LYONE)

ELECTRICAL PANEL SCHEDULES -BP4

E-702Q

<u>Λ</u> Ν	IELBOARD AND V	VIDING SC	HEI	711	IF											
~ \1	PANEL: NDP5N			J			S TYPE	E: MLC)			PANE	L IN	ΓERRU	PTING RATING: 35k	
	VOLTAGE: 208Y/120V,3P,4W						SPE):							LOCATION: ELEC	C 502
	AMPERES: 600 A					MOU	JNTING	S: SUR	FACE						SUPPLY FROM: SUB	2A
ΓES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	ОСР	Р	СКТ		4	E	3	(;	СКТ	Р	ОСР	HOT, NEUT, GND	CIRCUIT DESCRIPTION NOTES
					1	10.6	11.3					2				
	RP5A	3-#300, 1-#300, 1-#4	225	3	3			8.3	9.8			4	3	225	3-#300, 1-#300, 1-#4	RP5B
					5					8.5	10.8	6				
					7	11.4	8.5					8				
	RP5C	3-#300, 1-#300, 1-#4	225	3	9			9.5	7.9			10	3	100	3-#1, 1-#1, 1-#8	PP5A
					11					10.7	6.4	12				
	ΥΥΥ	Y Y		\vdash	13	7.8						14	1	-	-	SPACE
	RP5G	3-#300, 1-#300, 1-#4	225	3	15			7.0				16	1	_	-	SPACE
					17					8.8		18	1	_	-	SPACE
	SPACE			1)	19		-					20	1	-	-	SPACE
	SPACE			4	21							22	1	-	-	SPACE
	SPACE			1)	23							24	1	-	-	SPACE
	SPACE			1	25		0.0					26				
	SPACE			1)	27				0.0			28	3	100		SPARE
	SPACE			1	29						0.0	30				
			49.5 kVA 416 A						kVA 5 A	45.1 379						
D C	CLASSIFICATION	CONNECTED LO	AD	DEM	IAND I					DEMA					PANE	L TOTALS
JIP		10400 VA			100.0				10400						7	TOTAL CONNECTED LOAD: 137201 VA
		+														

			73.3 KV/	72.5 KVA	1 0.1 KVA	
			416 A	355 A	379 A	
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND	FACTOR	ESTIMATED	DEMAND	PANEL TOTALS
EQUIP	10400 VA	100.	.00%	10400	VA	TOTAL CONNECTED LOAD: 137201 VA
LTNG	22781 VA	100	.00%	22781	VA	TOTAL ESTIMATED DEMAND: 90441 VA
Motor	100.	.00%	500 \	√A	TOTAL CONNECTED CURRENT: 381 A	
REC	103520 VA	54.	83%	56760	VA	TOTAL ESTIMATED DEMAND CURRENT: 251 A
						25 % ADDITIONAL CAPACITY: 63 A
						TOTAL PANEL CURRENT: 314 A

					25 % ADDITIONAL
					TOTAL PANEL
OTES:	WHERE NOT LISTED, WIRE AND C	CONDUIT SHALL BE BE MIN	NIMUM PER SPECIFICA	TIONS. SPARE BREAKERS	TO BE 20A/1P.

	PANEL: NDP5S					MAIN	IS TYP	E: MLC)			PANEL	_ IN	TERRU	PTING RATING: 35k		
	VOLTAGE: 208Y/120V,3P,4W						SPI	D:							LOCATION: ELE	C 558	
	AMPERES: 600 A					МО	UNTIN	G: SUR	FACE						SUPPLY FROM: SUB	3A	
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	ОСР	Р	СКТ		A	I	3	(3	СКТ	Р	ОСР	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NO NO
					1	10.0	9.1					2					
	RP5D	3-#300, 1-#300, 1-#4	225	3	3			9.4	7.3			4	3	225	3-#300, 1-#300, 1-#4	RP5F	
					5					9.1	6.3	6					
					7	6.5	2.4					8					
	RP5E	3-#300, 1-#300, 1-#4	225	3	9			6.1	2.5			10	3	100	3-#1, 1-#1, 1-#8	PP5B	
					11					5.4	1.4	12					
					13	2.9	-					14	1	-	-	SPACE	
	MP5	3-#1, 1-#1, 1-#8	100	3	15			0.9				16	1	-	-	SPACE	
	00405			1	17					0.8		18	1	-	-	SPACE	
	SPACE			1	19							20	1	-		SPACE	
	SPACE			1	21			-				22	1	-		SPACE	
	SPACE		-	1	23	0.0	0.0					24	1	-		SPACE	
	SPARE		225	,	25 27	0.0	0.0	0.0	0.0			26 28	3	100		SPARE	
	SPARE		225	3	29			0.0	0.0	0.0	0.0	30	3	100	_	SPARE	
					29	30.0	kVA	26.2	 k\/Δ	23.0		30					
							2 A		3 A	19:							
OAD C	LASSIFICATION	CONNECTED LO	AD	DE	MAND	FACT	OR	ESTIN	MATED	DEMA	ND				PANE	L TOTALS	
EQUIP		6000 VA			100.	.00%			6000	VA					•	TOTAL CONNECTED LOAD:	80178 VA
TNG		6338 VA				.00%			6338	VA					TO	TAL ESTIMATED DEMAND:	51258 VA
REC		67840 VA			57.	37%			38920	VA						AL CONNECTED CURRENT:	
		0.0.0			•	U . 70				***						MATED DEMAND CURRENT:	
																% ADDITIONAL CAPACITY:	
															23	TOTAL PANEL CURRENT:	

	PANEL: NDP6N					MAIN	IS TYP	E: MLC)			PANE	L IN	TERRU	PTING RATING: 35k		
	VOLTAGE : 208Y/120V,3P,4W						SPI	D:							LOCATION: ELE	C 602	
	AMPERES: 800 A					MO	UNTING	G: SUR	FACE						SUPPLY FROM: SUB	32B	
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	ОСР	Р	CKT	1	4	E	8	(3	СКТ	Р	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	N
					1	10.8	12.1					2					
R	RP6A	3-#300, 1-#300, 1-#4	225	3	3			9.1	11.9			4	3	225	3-#300, 1-#300, 1-#4	RP6B	
					5					10.0	11.2	6					
					7	16.4	15.7					8					
R	RP6C	3-#300, 1-#300, 1-#4	225	3	9			16.6	12.6	40.0		10	3	225	3-#300, 1-#300, 1-#4	RP6D	
					11	40.0	0.0			13.8	14.7	12					
	PP6A	2 #4 4 #4 4 #0	100	2	13	10.0	6.9	6.9	3.6			14 16	3	100	2 #4 4 #4 4 #0	MP6	
P	7P0A	3-#1, 1-#1, 1-#8	100	3	15 17			6.9	3.0	7.7	4.1	18	3	100	3-#1, 1-#1, 1-#8	IMPO	
S	SPACE			1	19					7.1	4.1	20	1			SPACE	+
	SPACE			1	21							22	1		-	SPACE	-
	SPACE		-	1	23							24	1		_	SPACE	
					25	0.0	0.0					26					
S	SPARE		225	3	27			0.0	0.0			28	3	100	-	SPARE	
					29					0.0	0.0	30					
						71.9	kVA	60.8	kVA	61.4	kVA						
						60	0 A	50	7 A	51	3 A						
LOAD CL	ASSIFICATION	CONNECTED LO	AD	DE	MAND	FACT	OR	ESTIN	MATED	DEMA	ND				PANE	L TOTALS	
EQUIP		33238 VA			100.	.00%			33238	VA						TOTAL CONNECTED LOAD: 19	94147 V
LTNG		24569 VA			100.	.00%			24569	VA					TC	DTAL ESTIMATED DEMAND: 13	31227 V
Motor		500 VA			100.	.00%			500 V	/A					TOTA	AL CONNECTED CURRENT: 53	39 A
REC		135840 VA			53.0	68%			72920	VA					TOTAL ESTIN	MATED DEMAND CURRENT: 36	64 A
															25	% ADDITIONAL CAPACITY: 91	1 A
																TOTAL PANEL CURRENT: 45	

PANELBOARD AND WIRING SCHEDULE

	PANEL: NDP6S					MAIN	IS TYPE	MAINS TYPE: MLO PANEL INTERRUPTING RATING: 35k											
	VOLTAGE : 208Y/120V,3P,4W						SPE):				LOCATION: ELEC 658 SUPPLY FROM: SUB3B							
	AMPERES: 600 A					МО	UNTING	: SUR	FACE										
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	ОСР	Р	СКТ		A	E	3		3	СКТ	Р	ОСР	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTE		
		, ,			1	3.2	5.4					2			, ,				
	PP6B	3-#1, 1-#1, 1-#8	100	3	3			1.1	5.2			4	3	225	3-#300, 1-#300, 1-#4	RP6F			
					5					1.7	5.8	6							
					7	14.1	6.2					8							
	RP6E	3-#300, 1-#300, 1-#4	225	3	9			11.4	5.8			10	3	225	3-#300, 1-#300, 1-#4	RP6G			
					11					9.9	5.8	12							
	SPACE			1	13		-					14	1			SPACE			
	SPACE			1	15							16	1	-		SPACE			
	SPACE			1	17							18	1	-		SPACE			
	SPACE				19		-					20	1	-		SPACE			
	SPACE			1	21							22	1	-		SPACE			
	SPACE			1	23							24	1			SPACE			
				3	25	0.0	0.0					26 28							
	SPARE		225		27			0.0	0.0				3	100		SPARE			
					29					0.0	0.0	30							
						28.9	kVA	23.5	kVA	23.2	kVA								
						24	1 A	196	6 A	193	3 A								
LOAD (LASSIFICATION	CONNECTED LOA	AD	DE	MAND	FACT	OR	ESTIN	//ATED	DEMA	ND				PANE	EL TOTALS			
EQUIP		1200 VA			100.	.00%			1200	VA						TOTAL CONNECTED LOAD: 7	5549 VA		
LTNG		5969 VA			100.	.00%			5969	VA					TC	TAL ESTIMATED DEMAND: 4	6359 VA		
REC		68380 VA			57.3	31%			39190	VA					TOT	AL CONNECTED CURRENT: 2	10 A		
																MATED DEMAND CURRENT: 1			
																% ADDITIONAL CAPACITY: 3			
			-												23		61 A		

	PANEL: NDP7N					MAIN	IS TYP	E: MLC)			PANEL	L IN	TERRU	PTING RATING: 35k					
	VOLTAGE: 208Y/120V,3P,4W	V					SP	D:				LOCATION: ELEC 702								
	AMPERES: 800 A					MO	UNTIN	G: SUF	RFACE						SUPPLY FROM: SUB2A					
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	ОСР	Р	СКТ	1	A	l	В	(;	СКТ	Р	ОСР	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES			
					1	7.4	10.9					2								
	RP7A	3-#300, 1-#300, 1-#4	225	3	3			8.1	8.0			4	3	225	3-#300, 1-#300, 1-#4	RP7B				
					5					8.9	7.7	6								
					7	10.2	10.6					8								
	RP7C	3-#300, 1-#300, 1-#4	225	3	9			11.8	9.4		_	10	3	225	3-#300, 1-#300, 1-#4	RP7D				
					11					7.6	7.9	12								
	DD75	0 11000 4 11000 4 114			13	9.9	9.1	0.0	0.5			14	_	400	0 "4 4 "4 4 "0					
	RP7E	3-#300, 1-#300, 1-#4	225	3	15 17			8.3	8.5	0.4	F 4	16	3	100	3-#1, 1-#1, 1-#8	PP7A				
	SPACE		_	1	19					9.4	5.4	18 20	1			SPACE				
	SPACE			1	21							22	1			SPACE				
	SPACE		_	1	23			-				24	1			SPACE				
	OI NOL			<u> </u>	25	0.0	0.0					26	•			OI NOL				
	SPARE		225	3	27	0.0	0.0	0.0	0.0			28	3	100		SPARE				
	S. 7 a .=				29			V.0	0.0	0.0	0.0	30				0.7.4.12				
						58.2	kVA	54.1	l kVA		kVA									
							4 A		60 A		1 A									
LOAD (CLASSIFICATION	CONNECTED LO	AD	DE	MAND	FACT	OR	ESTI	MATED	DEMA	ND				PANE	EL TOTALS				
EQUIP		11650 VA			100	.00%			11650	VA						TOTAL CONNECTED LOAD: 1592	58 VA			
LTNG		23128 VA			100	.00%			23128	VA					TC	OTAL ESTIMATED DEMAND: 1020	18 VA			
REC		124480 VA			54.	02%			67240	VA					TOT	AL CONNECTED CURRENT: 442	Ą			
															TOTAL ESTIN	MATED DEMAND CURRENT: 283	Ą			
															25	% ADDITIONAL CAPACITY: 71 A				
																TOTAL PANEL CURRENT: 354 /				

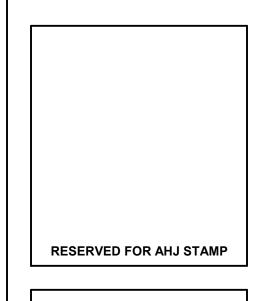
	PANEL: NDP7S					MAIN		E: MLO)			PANEL INTERRUPTING RATING: 35k							
	VOLTAGE : 208Y/120V,3P,4W						SPI					LOCATION: ELEC 758							
	AMPERES: 600 A			1_	1			S: SUR		1 .		-	SUPPLY FROM: SUB3A CKT P OCP HOT NEUT, GND CIRCUIT DESCRIPTION NOTE						
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	СКТ	_	4	E	3	(C		OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTIO	NOT			
	DDZE	2 #200 4 #200 4 #4	005	_	1	11.2	2.6	10.1	4.5			2	400	2 44 4 44 4 40	DDZD				
	RP7F	3-#300, 1-#300, 1-#4	225	3				10.1	1.5	8.6	1.0	4 3	100	3-#1, 1-#1, 1-#8	PP7B				
					5 7	2.3				0.0	1.8	6 8		\mathcal{A}	SPACE				
	MP7B	3-#1, 1-#1, 1-#8	100	3		2.5		2.9				10 1	رت		SPACE				
	IVII 7 B	0 #1, 1 #1, 1 #0	100	"	11			2.5		0.9		12 1			SPACE				
	SPACE			1	13					0.0		14 1	_		SPACE				
	SPACE			1	15							16 1	_		SPACE				
	SPACE			1	17					-		18 1			SPACE				
	SPACE		_	1	19							20 1	_		SPACE				
	SPACE			1	21							22 1			SPACE				
	SPACE			1	23							24 1	-		SPACE				
					25	0.0	0.0					26							
	SPARE		225	3				0.0	0.0			28 3	100	_	SPARE				
					29					0.0	0.0	30							
						16.1	kVA	14.4	kVA	11.2	kVA								
						13	9 A	124	4 A	94	4 A								
LOAD (CLASSIFICATION	CONNECTED LO	AD	DE	MAND	FACT	OR	ESTIN	//ATED	DEMA	ND			PANE	EL TOTALS				
EQUIP		8100 VA			100	.00%			8100	VA					TOTAL CONNECTED LOAD:	41820 VA			
LTNG		5860 VA			100.	.00%			5860	VA				TC	TAL ESTIMATED DEMAND:	32890 VA			
REC		27860 VA			67.	95%			18930	VA				TOTA	AL CONNECTED CURRENT:	116 A			
														TOTAL ESTIN	MATED DEMAND CURRENT:	91 A			
														25	% ADDITIONAL CAPACITY:	23 A			
															TOTAL PANEL CURRENT:				
	: WHERE NOT LISTED, WIRE AND	CONDITIT SHALL BE E	E MIN	IMII	M PER	SPEC	IFICΔTI	IONS 9	SPARE	BREAL	KERS T	Ω RE 20Δ	/1P						

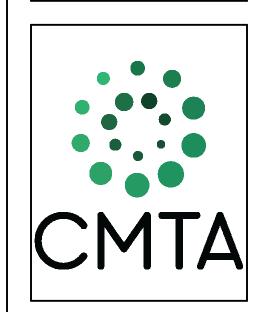
	PANEL: NDP8N					MAIN		E: MLC)			PANE	L IN	TERRU	PTING RATING: 35k				
	VOLTAGE : 208Y/120V,3P,4W						SPI					LOCATION: ELEC 802							
	AMPERES: 800 A			_	0.47			S: SUR				01/7			SUPPLY FROM: SUB	•			
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKI	_	4	ŀ	3	(CKT	Р	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	N I	NOT	
	RP8A	2 #200 4 #200 4 #4	225	2	1	9.7	11.2	40.0	20.7			4		225	2 #200 4 #200 4 #4	DDOD			
	RP8A	3-#300, 1-#300, 1-#4	225	3	3 5			12.2	20.7	10.7	11.8	6	3	225	3-#300, 1-#300, 1-#4	RP8B			
					7	8.6	12.5			10.7	11.0	8							
	RP8C	3-#300, 1-#300, 1-#4	225	3	9	0.0	12.5	9.1	10.1			10	3	225	3-#300, 1-#300, 1-#4	RP8D			
	14 00	3-#000, 1-#000, 1-#-4	223		11			J. 1	10.1	5.7	9.2	12		220	3-#300, 1-#300, 1-# -1	IN OD			
					13	11.3	6.1			0.7	0.2	14						_	
	RP8E	3-#300, 1-#300, 1-#4	225	3	15		0	13.2	7.4			16	3	100	3-#1, 1-#1, 1-#8	PP8A			
					17					11.5	5.3	18					$\overline{}$		
	SPACE			1	19		6.6					20/	$\overline{}$	`			$\overline{}$	✓	
	SPACE		-	1	21				6.4			(22	3	150	3-#3/0, 1-#3/0, 1-#6	MP8			
	SPACE			1	23					-	4.4	24							
					25	0.0	-					26	1	-	-	SPACE			
	SPARE		225	3	27			0.0				28	1	-		SPACE			
					29					0.0		3 0	1	-		SPACE			
						66.1	kVA	79.1	kVA	58.6	kVA			~	\land	\sim	\sim		
						56	0 A	66	8 A	48	9 A		$\overline{}$		$\overline{}$			_	
LOAD C	LASSIFICATION	CONNECTED LO	AD	DE	MAND	FACT	OR	ESTIN	/IATED	DEMA	ND				PANE	EL TOTALS			
EQUIP		32138 VA			100.	00%			32138	VA						TOTAL CONNECTED LOAD:	203749	۷A	
LTNG		18751 VA			100.	00%			18751	VA					TC	TAL ESTIMATED DEMAND:	132319	۷A	
REC		152860 VA			53.2	27%			81430	VA					TOT	AL CONNECTED CURRENT:	566 A	_	
															TOTAL ESTIN	MATED DEMAND CURRENT:	367 A		
															25	% ADDITIONAL CAPACITY:	92 A		
																TOTAL PANEL CURRENT:			

PANEL SCHEDULE KEY								
NPD5N	NDP5S	NPD6N						
NPD6S	NPD7N	NPD7S						
NPD8N								

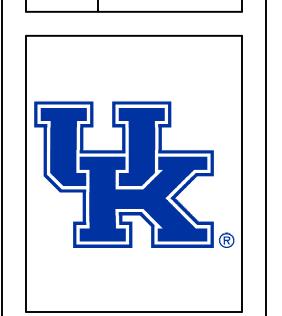








MICHAEL D. RANKIN MD HEALTH
EDUCATION BUILDING
UNIVERSITY OF KENTUCKY
1149 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



	ELI	ECTRICA	L						
ROJ	ECT	202170/XK	SM21						
DA	ΓΕ	05/20/2024							
	R	EVISIONS							
No.		Description	Date						
1	BP-4 F	INAL ADDENDUM	07/24/24						

DRAV REUSI OR AN PART, THE PF	A ARCHITECTS HAS RETAINE ELECTRONIC VERSION OF THE VINGS. THE CLIENT AGREES E THESE DRAWINGS - IN ELECTOR ANY PURPOSE OTHER TROJECT. THE CLIENT AGREES ISFER THESE ELECTRONIC FIERS WITHOUT THE PRIOR WITHOUT THE WITH WITH THE WITHOUT THE WITHOUT THE WITH WITH THE WITH THE WITH WITH THE WIT	ESE NOT TO CTRONIC LE, OR IN HAN FOR S NOT TO ILES TO

OTHERS WITHOUT THE PRIOR WRITTEN
CONSENT OF THE ARCHITECT. THE CLIENT
FURTHER AGREES TO WAIVE ALL CLAIMS
AGAINST THE ARCHITECT RESULTING IN ANY
WAY FROM ANY UNAUTHORIZED CHANGES
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OTHER THAN THE ARCHITECT.

ELECTRICAL PANEL SCHEDULES -BP4

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